



Prepared for

Georgia Power Company
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Atlanta, Georgia 30308

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

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CERTIFICATION STATEMENT

This 2022 Annual Groundwater Monitoring and Corrective Action Report, Plant Wansley Ash Pond 1 (AP-1) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).



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January 31, 2023
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SUMMARY

This summary of the *2022 Annual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program for the reporting period of January through December 2022 (referred to herein as the 2022 annual reporting period) at Georgia Power Company’s (Georgia Power’s) Plant Wansley Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. AP-1 is a 343-acre surface impoundment located northwest of the plant, which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976.



Plant Wansley and the Site

As of April 2019, all process-related flows from the plant to AP-1 have ceased. As part of the *2022 Integrated Resource Plan*, the Georgia Public Service Commission approved decertification and retirement of the Plant Wansley coal fired units on August 31, 2022. As part of that plan, Georgia Power has elected to close Plant Wansley AP-1 by removal. The 2018 permit submittal will be updated to reflect these changes and submitted to the Georgia Environmental Protection Division (GA EPD) for further review.

Groundwater at the Site is monitored using a comprehensive well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 to September 2017. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures (ACM) program were established in

¹ 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

January 2018 and October 2022, respectively. During the 2022 annual reporting period, the Site remained in assessment monitoring.

During the 2022 annual reporting period, Geosyntec conducted assessment monitoring events in February/March and August 2022, and three supplementary sampling events in January, June, and October 2022 in support of the assessment monitoring and ACM programs. Groundwater samples collected during the 2022 annual reporting period were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the federal CCR Rule, groundwater data obtained from these events were evaluated in accordance with the certified statistical methods. The evaluations identified statistically significant values of select Appendix III² and Appendix IV³ constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the 2022 annual reporting period. On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated federal GWPS where a maximum contaminant level (MCL) had not been established. These levels were specified for cobalt (0.006 milligrams per liter (mg/L)), lead (0.015 mg/L), lithium (0.040 mg/L) and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Statistical evaluations for the February/March, June, and August 2022 monitoring events were updated to reflect these changes; the data obtained from the January and October 2022 events⁴ were not evaluated due to the limited number of independent samples (i.e., minimum of four).

An Alternate Source Demonstration (ASD)⁵ was submitted that presents multiple lines of evidence that the lithium groundwater concentrations detected at WGWC-19 are not associated with a release from AP-1 but are instead attributed to a natural source of lithium in rock formations at the Site.

Based on the statistical analyses results reported herein, statistically significant levels (SSLs) of Appendix IV constituents were identified for groundwater data collected during this 2022 annual reporting period that are not addressed by preexisting ASDs. Pursuant to § 257.96, Georgia Power initiated an ACM program on October 27, 2022. An *Assessment of Corrective Measures Report* for AP-1 will be submitted to GA EPD by March 2023 per § 257.96. Pursuant to § 257.96(b), Georgia Power will continue to

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

⁴ Only assessment monitoring wells WGWC-26D and WGWC-27 were sampled in October 2022.

⁵ An ASD was submitted in January 2019 (ACC, 2019b). An Addendum to the ASD was submitted in November 2020 (Geosyntec, 2020) and revised in February 2021 (Geosyntec, 2021b).

monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 during this evaluation period. Reports will be posted to Georgia Power’s CCR Rule Compliance website and provided to GA EPD semiannually.

Appendix III Constituent	February/March 2022	June 2022⁶	August 2022
Boron	WGWC-8, WGWC-9, WGWC-16	---	WGWC-8, WGWC-9, WGWC-16
Calcium	WGWC-8	---	WGWC-8
Chloride	WGWC-8, WGWC-16	---	WGWC-8, WGWC-16
Fluoride	WGWC-9, WGWC-15, WGWC-19	---	WGWC-9, WGWC-15
Sulfate	WGWC-8, WGWC-9, WGWC-16	---	WGWC-8, WGWC-9, WGWC-16
Total Dissolved Solids	WGWC-8	---	WGWC-8
Appendix IV Constituent⁷	February/March 2022	June 2022	August 2022
Beryllium	---	WGWC-20	WGWC-20
Lithium	WGWC-19	WGWC-20	WGWC-19, WGWC-20

⁶ Only detection monitoring wells WGWC-20 through WGWC-25 were sampled in June 2022. Statistical evaluation of the Appendix III constituents reported in these six wells will occur when a minimum of eight independent samples are collected.

⁷ A statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule-specified GWPS.

TABLE OF CONTENTS

SUMMARY.....ii

1.0 INTRODUCTION.....1

 1.1 Site Description and Background.....1

 1.2 Regional Geology and Hydrogeologic Setting.....2

 1.2.1 Regional and Site Geology.....2

 1.2.2 Hydrogeologic Setting.....3

 1.3 Groundwater Monitoring Well Network.....3

2.0 GROUNDWATER MONITORING ACTIVITIES.....5

 2.1 Monitoring Well Installation and Maintenance.....5

 2.2 Assessment Monitoring.....5

 2.3 Additional Groundwater and Surface Water Sampling.....6

3.0 SAMPLING METHODOLOGY AND ANALYSES.....7

 3.1 Groundwater Level Measurement.....7

 3.2 Groundwater Gradient and Flow Velocity.....7

 3.3 Groundwater Sampling Procedures.....8

 3.4 Laboratory Analyses.....9

 3.5 Quality Assurance and Quality Control Summary.....9

4.0 STATISTICAL ANALYSIS.....11

 4.1 Statistical Methods.....11

 4.1.1 Appendix III Statistical Methods.....11

 4.1.2 Appendix IV Statistical Methods.....12

 4.2 Statistical Analyses Results.....13

 4.2.1 February/March 2022 Data.....13

 4.2.2 June 2022 Data.....13

 4.2.3 August 2022 Data.....13

 4.2.4 Summary of Statistical Analyses.....14

5.0 NATURE AND EXTENT.....15

 5.1 Alternate Source Demonstration.....15

6.0 MONITORING PROGRAM STATUS.....16

 6.1 Assessment Monitoring Status.....16

6.2	Assessment of Corrective Measures	16
6.3	Potable Well Survey	17
7.0	CONCLUSIONS AND FUTURE ACTIONS	18
8.0	REFERENCES	19

LIST OF TABLES

Table 1	Monitoring Well Network Summary
Table 2	Groundwater Sampling Event Summary
Table 3	Summary of Groundwater Elevations
Table 4	Horizontal Groundwater Gradient and Flow Velocity Calculations
Table 5	Summary of Groundwater Analytical Data
Table 6	Summary of Background Concentrations and Groundwater Protection Standards

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Groundwater Monitoring Well Network Map
Figure 3	Potentiometric Surface Contour Map – February 2022
Figure 4	Potentiometric Surface Contour Map – August 2022

LIST OF APPENDICES

Appendix A	Well Design, Installation, and Development Report, Plant Wansley Ash Pond 1 (AP-1), December 2022
Appendix B	Well Maintenance and Repair Documentation Memoranda
Appendix C	Analytical Laboratory Results and Field Sampling Forms
Appendix D	Statistical Analysis Reports
Appendix E	Assessment of Corrective Measures (ACM) Extension Request
Appendix F	Potable Well Survey Report

LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
CSM	conceptual site model
DO	dissolved oxygen
EDR	Environmental Data Resources
Eurofins	Eurofins Environment Testing America
ft bgs	feet below ground surface
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
i	horizontal hydraulic gradient
K_h	horizontal hydraulic conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
n_e	effective porosity
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
PE	Professional Engineer
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids

Unified Guidance Statistical Analysis of Groundwater Data at RCRA Facilities Unified
Guidance
USEPA United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2022 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1) for the reporting period of January through December 2022 (referred to herein as the 2022 annual reporting period).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through § 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations.

Due to statistically significant levels (SSLs) of beryllium and lithium identified in the *2022 Semiannual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2022b), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-1 in October 2022, within 90 days of SSL notification in accordance with § 257.96. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for AP-1 in 2018, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

1.1 Site Description and Background

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. The plant property is bounded on the east and southeast by the Chattahoochee River, and sparsely populated, forested, rural, and agricultural land to the north, south, and west. AP-1 is a 343-acre surface impoundment located northwest of the plant (**Figure 1**), which was designed to receive and store CCR

materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976. As of April 2019, all process-related flows from the plant to AP-1 have ceased. As part of the *2022 Integrated Resource Plan*, the Georgia Public Service Commission approved decommissioning of the Plant Wansley coal fired units on August 31, 2022. As part of that plan, Georgia Power has elected to close Plant Wansley AP-1 by removal. The 2018 permit submittal will be updated to reflect these changes and submitted to GA EPD for further review.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 02 – Plant Wansley* (HAR Rev 02) (Geosyntec, 2022a) submitted to GA EPD in support of the closure permit application.

1.2.1 Regional and Site Geology

Plant Wansley is located within the Piedmont Physiographic Province (Piedmont) of western Georgia, which is characterized by gently rolling hills with locally pronounced low, linear ridges, trending northeast-southwest, and separated by valleys. Over geologic time, the Piedmont has been subjected to multiple events of uplift, folding and faulting, alternation, and erosion.

The Piedmont Province is generally underlain by a variably thick blanket of overburden, which is comprised of residual and saprolitic soils derived from the in-place weathering of bedrock. Near the ground surface, soils are generally silt- and clay-rich, with fine-sand and sand becoming more prominent with depth. With increasing depth, the weathered materials tend to retain details of the structural features of the underlying bedrock. Occasional deposits of alluvium are present in valleys and drainage features. A mantle of partially weathered rock (PWR) and the upper fractured surface of the bedrock in the Piedmont comprises a zone often referred to as the “transition zone.”

Bedrock in the Piedmont is predominately composed of metamorphic rock of Precambrian to Paleozoic age. The Site is underlain by several bedrock types consisting of graphitic schist, muscovite schist, biotite schist, schist with interlayered mafic units, amphibolite/hornblende gneiss, granitic gneiss, and feldspathic quartzite as identified in boring logs. Saprolitic soils were described at variable thickness across the Site but were generally encountered at or near ground surface. As is characteristic of this province, the Site has two pronounced ridges, one on the northwest side of AP-1 and one on the

southeast side of AP-1, as well as smaller rolling hills along the western property boundary.

1.2.2 Hydrogeologic Setting

While the aquifer characteristics of each lithologic unit may vary, the groundwater is interconnected between these units, and they effectively act as one, unconfined aquifer. The uppermost aquifer at AP-1 occurs primarily in PWR and fractured bedrock. According to previous site investigations, the potentiometric surface is a subdued reflection of the topography. The top of bedrock surface also generally follows topography and likely controls groundwater flow direction in the uppermost aquifer. Because of the steep topography at the Site and variable lithologic framework, the depth to the water table is variable, ranging from approximately 1 to 50 feet below ground surface (ft bgs). The regional groundwater flow direction is expected to be to the southeast; however, in topographically high areas south of AP-1, shallower water table elevations are noted within the saprolite and PWR, and hydraulic gradients indicate localized flow northward (or inward) toward the pond.

Groundwater in the saprolite and PWR is hydraulically connected to the bedrock via fractures and deeply weathered areas of the rock. Recharge is by precipitation infiltrating through the saprolite to the bedrock. Based on observations of soil types and horizontal conductivity values, the movement of groundwater in the saprolite is very slow and likely acts as flow through a low-permeability porous media. Groundwater flow in the PWR and the transition zone between the PWR and the fractured bedrock is expected to be greater than in the overlying saprolite and the underlying fractured bedrock. Groundwater flow in the bedrock is restricted entirely to flow through fractures. Visual observations and geophysical logging during field investigations indicate a trend of decreasing fracture aperture and density with depth, consistent with regional geologic trends.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of AP-1 (i.e., background conditions) and passing the waste boundary of AP-1. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

As part of the assessment monitoring program, assessment monitoring wells were installed in September 2022 to characterize the nature and extent of beryllium and lithium in groundwater downgradient of AP-1. Pursuant to § 257.95(g)(1)(iv), the wells classified as “assessment monitoring wells” will continue to be sampled concurrently with the detection monitoring well network (formerly known as “compliance monitoring wells”) as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers are used in combination with the detection and assessment monitoring well networks to gauge groundwater levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the ACM program.

The locations of the detection monitoring wells, assessment monitoring wells, and piezometers are shown on **Figure 2**; well and piezometer construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during the 2022 annual reporting period and discusses any changes in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

Two assessment monitoring wells (WGWC-26D and WGWC-27) were installed in September 2022 to provide additional data to characterize groundwater quality and flow conditions downgradient of AP-1. The locations of the two wells are shown on **Figure 2**. A well installation report that includes detailed boring and well construction logs was submitted to GA EPD in December 2022 (Geosyntec, 2022c), and is provided in **Appendix A**.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February/March and August 2022, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix B**. In October 2022, an additional inspection was completed. The corrective actions identified during this inspection were addressed and are documented in **Appendix B**. This well inspection and documentation was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018. Statistical analyses of the 2018 assessment monitoring data identified an SSL of lithium in detection monitoring wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 in excess of the associated federal and/or state groundwater protection standards (GWPS). In accordance with § 257.95(g)(3), Georgia Power prepared an ASD for lithium (ACC, 2019b), which was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (ACC, 2019a). The ASD presented evidence that the source of lithium in groundwater at wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 was naturally-derived from the subsurface rock formations and did not originate from the unit. Statistical analyses of groundwater data obtained since March

2021 has identified SSLs of beryllium and lithium in WGWC-20 in excess of applicable GWPS.

Pursuant to § 257.96, an ACM was initiated for AP-1 in October 2022. An *Assessment of Corrective Measures Report* (ACM Report) is being prepared for AP-1 and will be submitted to GA EPD by March 2023. In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

Detection monitoring wells WGWA-1 through WGWC-25 were sampled in February/March and August 2022 in support of the assessment monitoring program. Supplemental sampling events were conducted in January and June 2022 for a data set consisting of a minimum of four samples for detection monitoring wells WGWC-20 through WGWC-25 to allow for statistical analysis. An additional sampling event was conducted in October 2022 to collect groundwater samples from assessment monitoring wells WGWC-26D and WGWC-27, which were installed in September 2022. A summary of groundwater samples collected for analysis and the dates the samples were collected at AP-1 is presented in **Table 2**. Details of the events and analytical results are discussed in Section 3. Laboratory reports associated with the groundwater sampling events completed in January, February/March, June, August, and October 2022 are presented in **Appendix C**.

2.3 Additional Groundwater and Surface Water Sampling

Supplemental groundwater samples were collected from the detection monitoring well network during the February/March 2022 assessment monitoring event and were analyzed for major cations (calcium [Ca], magnesium [Mg], potassium [K], and sodium [Na]) and major anions (chloride [Cl], sulfate [SO₄], and alkalinity [i.e., bicarbonate, carbonate, total] [HCO₃]) as well as iron, manganese, and sulfide. The data were collected in support of evaluating the geochemical composition of the groundwater and will be discussed as part of the ACM program. The laboratory reports associated with the data are provided in **Appendix C**.

In support of risk evaluation efforts, Georgia Power collected surface water samples from the Chattahoochee River at locations upstream and downstream of AP-1 in March and August 2022. The field sampling forms and laboratory report associated with the surface water sampling are provided in **Appendix C**.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-1 during the 2022 annual reporting period.

3.1 Groundwater Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers during the two 2022 site-wide assessment monitoring events and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The February and August 2022 elevations reported are generally representative of the groundwater elevations reported for prior monitoring events.

The groundwater elevation data were used to prepare a potentiometric surface map for the February/March and August 2022 events, which are presented on **Figures 3** and **4**, respectively. Groundwater in the AP-1 area flows under the influence of topography and generally flows inward towards AP-1 with a minor component of flow from AP-1 in a localized area near the eastern corner of AP-1.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer at AP-1 were calculated using the groundwater elevation data from the February/March 2022 and August 2022 events. Hydraulic gradients were calculated along the flow paths between PZ-01 and WGWC-17 and between PZ-10 and WGWC-19. The supporting calculations are presented in **Table 4**; the locations of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**. The calculated average hydraulic gradient between PZ-01 and WGWC-17 is 0.086 feet per foot (ft/ft); the average hydraulic gradient between PZ-10 and WGWC-19 is 0.090 ft/ft.

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy's Law. The calculations are presented in **Table 4**.

$$V = \frac{K_h * i}{n_e}$$

where:

V = Groundwater flow velocity $\left(\frac{\text{feet}}{\text{day}}\right)$

K_h = Horizontal hydraulic conductivity $\left(\frac{\text{feet}}{\text{day}}\right)$

i = Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{foot}}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average horizontal hydraulic conductivity (K_h) for AP-1 of 9.5×10^{-5} centimeters per second (cm/sec) (0.27 feet per day [ft/day]) was computed from previous slug test data obtained from testing of wells at AP-1 (Geosyntec, 2022a). An estimated effective porosity of 0.25 is used to represent average conditions at AP-1, derived based on review of literature (Driscoll, 1986; Freeze and Cherry, 1979), observed site lithology, and professional judgement. With these variables defined, and accounting for the averaged hydraulic gradient discussed above for the two 2022 events, the average calculated flow velocity for the 2022 annual reporting period was approximately 0.093 ft/day (PZ-01 to WGWC-17) and 0.097 ft/day (PZ-10 to WGWC-19), for an average groundwater flow velocity in the vicinity of AP-1 of 0.095 ft/day, or approximately 35 ft/year.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (SmarTroll, Aqua TROLL, or similar) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was measured using a LaMotte 2100Q

(or similar) portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.)
- Conductivity \pm 5 %
- \pm 0.2 milligrams per liter (mg/L) or \pm 10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins Environment Testing America (Eurofins) in Pittsburgh, Pennsylvania, following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the 2022 annual reporting period are provided in **Appendix C**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Eurofins, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Eurofins maintains a NELAP certification for the Appendix III and Appendix IV constituents and the geochemical parameters analyzed for this project. Analytical methods used for groundwater sample analyses, and associated results, are listed in the analytical laboratory reports included in **Appendix C**.

The groundwater analytical results from the two 2022 assessment monitoring events, the January and June 2022 supplemental sampling events for WGWC-20 through WGWC-25, and the October 2022 supplemental sampling of WGWC-26D and WGWC-27 are summarized in **Table 5**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events at the minimum rate of one set of QA/QC samples per 10 groundwater samples. One set of QA/QC samples included the following: field duplicate,

equipment blank (where non-dedicated sampling equipment was used), and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-supplied sample containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Eurofins.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The data are considered usable for meeting project objectives, and the results are considered valid. The associated data validation reports are provided in **Appendix C** with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the 2022 annual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the reports generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

Groundwater data from the 2022 annual reporting period were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020) (Environmental Resources Management, 2017; Atlantic Coast Consulting, Inc. [ACC], 2020). The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in **Appendix D** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**. On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated federal GWPS where a maximum contaminant level (MCL) had not been established. These levels were specified for cobalt (0.006 milligrams per liter (mg/L)), lead (0.015 mg/L), lithium (0.040 mg/L) and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Therefore, the statistical reports and **Table 6** do not differentiate between two sets of GWPS as previously required.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2

verification resample plan for each of the Appendix III constituents. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the background limit for each constituent to assess whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection monitoring well with a data set consisting of a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs of Appendix IV constituents. Due to previous non-routine sampling, some Appendix IV constituents at a well location have differing number of analytical data points

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

- (1) The MCL established under § 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;

- (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis discussion presented in **Appendix D**, groundwater conditions have not returned to background levels and assessment monitoring should continue. Based on the statistical analyses of Appendix IV constituents, the following constituent(s) exceeded the GWPS during the 2022 annual reporting period:

4.2.1 February/March 2022 Data

- Lithium: WGWC-19

4.2.2 June 2022 Data

- Beryllium: WGWC-20
- Lithium: WGWC-20

4.2.3 August 2022 Data

- Beryllium: WGWC-20
- Lithium: WGWC-19 and WGWC-20

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). No statistically significant trends were identified for beryllium in WGWC-19, or lithium in WGWC-19 and WGWC-20.

4.2.4 Summary of Statistical Analyses

The SSLs identified for the 2022 annual reporting period are generally consistent with the 2021 annual reporting period, with the following exceptions:

- No SSLs of lithium were identified in WGWC-8 and WGWC-9. All previously identified SSLs of lithium in these wells have at all times complied with the GWPS, as established by GA EPD on February 22, 2022.
- SSLs of beryllium and lithium in WGWC-20 were first identified during this reporting period following collection of a sufficient number of groundwater samples (minimum of four independent samples) from WGWC-20 to complete statistical analysis of the data.

The lithium SSL in WGWC-19 is addressed with the alternate source demonstration (ASD) and the ASD Addendums previously submitted to GA EPD (ACC, 2019b; Geosyntec, 2020; Geosyntec, 2021b), as explained in Section 5 below.

5.0 NATURE AND EXTENT

Based on results of the initial sampling of assessment monitoring wells downgradient of WGWC-20, beryllium and lithium SSLs were observed to be horizontally delineated by WGWC-27 to below their associated GWPS (0.004 mg/L and 0.040 mg/L, respectively). In addition, the beryllium SSL was observed to be vertically delineated by WGWC-26D. Georgia Power will continue to monitor the assessment monitoring wells and adaptively manage the Site as new data become available. Assessment monitoring wells WGWC-26D and WGWC-27 will continue to be sampled to support SSL delineation, and the data will be statistically evaluated after collecting a minimum of four independent samples. Additional vertical delineation of the lithium SSL in WGWC-20 is currently under evaluation.

5.1 Alternate Source Demonstration

In accordance with § 257.95(g)(3), Georgia Power prepared an ASD for lithium (ACC, 2019b), which was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (ACC, 2019a). The ASD presented evidence that the source of lithium in groundwater at WGWC-19⁸ was naturally-derived from the subsurface rock formations and did not originate from the unit.

An ASD Addendum was submitted to GA EPD under separate cover in November 2020 (Geosyntec, 2020) and was provided in the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021a). A revised ASD Addendum was submitted to GA EPD under separate cover in February 2021 (Geosyntec, 2021b). The ASD Addendums present supplemental data collected since submittal of the 2019 ASD, which provide additional lines of evidence to demonstrate that the SSL of lithium identified at WGWC-19 is associated with naturally occurring lithium within rock formations at the Site.

⁸ SSLs of lithium in excess of the prior state GWPS (0.009 mg/L) were previously identified in WGWC-8, WGWC-9, and WGWC-10 and detailed in the submitted ASD and ASD Addendums (ACC, 2019a; Geosyntec, 2020; Geosyntec, 2021b). However, all previously identified SSLs in these three wells have at all times complied with the current GWPS (0.040 mg/L), as established by GA EPD on February 22, 2022.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSLs of beryllium and lithium in WGWC-20. Pursuant to § 257.95(g)(1)(iv), assessment monitoring wells installed in support of the ACM program will be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

An ACM Report is being prepared for AP-1 and will be submitted to GA EPD by March 2023. An extension was requested for the preparation of the ACM and submitted to GA EPD in January 2023 (see **Appendix E**). The purpose of the ACM Report is to begin the process of selecting corrective measure(s) for groundwater. This process is typically iterative and may be composed of multiple steps to analyze the effectiveness of corrective measures to address the potential migration of CCR constituents in groundwater at AP-1. Once potential corrective measures are identified in the ACM Report, they are further evaluated using the criteria outlined in § 257.96(c).

The ACM efforts completed during subsequent reporting periods will be presented in a *Semiannual Remedy Selection and Design Progress Report* (semiannual progress report) provided as an appendix to the routine semiannual groundwater monitoring and corrective action reports. The semiannual progress reports will summarize:

- (i) the current conceptual site model (CSM) applicable to evaluating groundwater corrective measures proposed in the ACM Report;
- (ii) the analytical data obtained during supplemental ACM-specific field investigations;
- (iii) the status of evaluating applicable corrective measures; and
- (iv) the planned activities and anticipated schedule for the following semiannual reporting period.

6.3 Potable Well Survey

A potable well survey of potential groundwater wells within a two-mile radius of AP-1 was conducted in January 2023 and consisted of reviewing federal, state, and county records, and online resources. A survey conducted by Environmental Data Resources (EDR) is included in **Appendix F**. Additional federal, state, and county records, and online sources outside of the EDR survey were also reviewed by Geosyntec. The Heard County Health Department declined Geosyntec's requests for information due to inadequate resources and the Carroll County Environmental Health Department did not provide a response following multiple requests. The findings from the 2022 well survey are consistent with the 2019 well survey (NewFields, 2019), except for the following additional features identified:

- One drinking water well located approximately 0.8 miles south of AP-1, with geographic coordinates 33.39764, -85.05206. A topographic high is located between AP-1 and the well. Therefore, it is reasonable to expect the well to be hydrologically separated from the Site, and it is not considered to be hydraulically downgradient.
- One drinking water well located approximately 2.1 miles east of AP-1, with geographic coordinates 33.42284, -85.00623. The Chattahoochee River is located between AP-1 and the well. Therefore, it is reasonable to expect the well to be hydrologically separated from the Site.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This 2022 *Annual Groundwater Monitoring and Corrective Action Report* for Plant Wansley AP-1 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-1 for the 2022 annual reporting period identified SSLs of beryllium and lithium in WGWC-20, and lithium in WGWC-19.

The 2018 ASD and 2021 ASD Addendum present multiple lines of evidence that illustrate that lithium SSLs in groundwater at WGWC-19 are associated with naturally occurring lithium within rock formations at the Site and are not originating from AP-1. Georgia Power is evaluating options to address the SSLs identified in WGWC-20 during this 2022 annual reporting period that are not addressed by preexisting ASDs. Recent efforts include the installation of assessment monitoring wells WGWC-26D and WGWC-27 to vertically and horizontally delineate the SSLs of beryllium and lithium in WGWC-20. Based on the initial groundwater sampling data, the SSLs are horizontally delineated by WGWC-27 to below their associated GWPS and WGWC-26D vertically delineates the SSL of beryllium to below the GWPS. Georgia Power will continue to monitor the assessment monitoring wells and adaptively manage the Site as new data become available.

In accordance with the requirements of § 257.96, Georgia Power initiated an ACM program on October 27, 2022. Correspondingly, an *Assessment of Corrective Measures Report* for AP-1 will be submitted to GA EPD by March 2023. Georgia Power will continue to monitor AP-1 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. The next routine semiannual assessment monitoring event is scheduled for February 2023.

8.0 REFERENCES

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TABLES

Table 2
Groundwater Sampling Event Summary
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Hydraulic Location	January 11 - 12, 2022	February 28 - March 4, 2022	June 6 - 7, 2022	August 15 - 19, 2022	October 19, 2022	Status of Monitoring Well
Purpose of Sampling Event:		Supplemental	Assessment	Supplemental	Assessment	Supplemental	
<i>Detection Monitoring Well</i>							
WGWA-1	Upgradient	--	X	--	X	--	Assessment
WGWA-2	Upgradient	--	X	--	X	--	Assessment
WGWA-3	Upgradient	--	X	--	X	--	Assessment
WGWA-4	Upgradient	--	X	--	X	--	Assessment
WGWA-5	Upgradient	--	X	--	X	--	Assessment
WGWA-6	Upgradient	--	X	--	X	--	Assessment
WGWA-7	Upgradient	--	X	--	X	--	Assessment
WGWA-18	Upgradient	--	X	--	X	--	Assessment
WGWC-8	Downgradient	--	X	--	X	--	Assessment
WGWC-9	Downgradient	--	X	--	X	--	Assessment
WGWC-10	Downgradient	--	X	--	X	--	Assessment
WGWC-11	Downgradient	--	X	--	X	--	Assessment
WGWC-12	Downgradient	--	X	--	X	--	Assessment
WGWC-13	Downgradient	--	X	--	X	--	Assessment
WGWC-14A	Downgradient	--	X	--	X	--	Assessment
WGWC-15	Downgradient	--	X	--	X	--	Assessment
WGWC-16	Downgradient	--	X	--	X	--	Assessment
WGWC-17	Downgradient	--	X	--	X	--	Assessment
WGWC-19	Downgradient	--	X	--	X	--	Assessment
WGWC-20	Downgradient	X	X	X	X	--	Assessment
WGWC-21	Downgradient	X	X	X	X	--	Assessment
WGWC-22	Downgradient	X	X	X	X	--	Assessment
WGWC-23	Downgradient	X	X	X	X	--	Assessment
WGWC-24	Downgradient	X	X	X	X	--	Assessment
WGWC-25	Downgradient	X	X	X	X	--	Assessment
<i>Assessment Monitoring Well</i>							
WGWC-26D ⁽¹⁾	--	--	--	--	--	X	Assessment
WGWC-27 ⁽¹⁾	--	--	--	--	--	X	Assessment

Notes:

-- = Not applicable

(1) Well installed in 2022 for site assessment activities in the vicinity of WGWC-20.

Table 3
 Summary of Groundwater Elevations
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	February 28, 2022		August 8, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
Detection Monitoring Well					
WGWA-1	782.93	27.96	754.97	27.60	755.33
WGWA-2	758.23	9.33	748.90	9.87	748.36
WGWA-3	828.91	2.78	826.13	4.02	824.89
WGWA-4	834.34	4.35	829.99	6.78	827.56
WGWA-5	902.15	14.35	887.80	17.83	884.32
WGWA-6	897.13	16.47	880.66	18.64	878.49
WGWA-7	897.33	26.80	870.53	28.78	868.55
WGWA-18	878.02	20.99	857.03	21.62	856.40
WGWC-8	780.08	3.28	776.80	6.22	773.86
WGWC-9	812.03	19.55	792.48	20.28	791.75
WGWC-10	812.38	20.68	791.70	21.44	790.94
WGWC-11	823.96	27.22	796.74	28.78	795.18
WGWC-12	823.04	26.74	796.30	28.29	794.75
WGWC-13	809.78	19.02	790.76	24.79	784.99
WGWC-14A	810.94	20.20	790.74	25.45	785.49
WGWC-15	804.69	19.93	784.76	20.45	784.24
WGWC-16	804.21	19.11	785.10	19.86	784.35
WGWC-17	816.00	29.68	786.32	30.39	785.61
WGWC-19	783.42	19.65	763.77	21.16	762.26
WGWC-20	807.95	28.47	779.48	28.06	779.89
WGWC-21	834.41	49.21	785.20	50.54	783.87
WGWC-22	810.37	16.55	793.82	20.67	789.70
WGWC-23	823.80	30.47	793.33	33.25	790.55
WGWC-24	804.80	12.81	791.99	17.65	787.15
WGWC-25	808.98	16.93	792.05	18.42	790.56
Piezometer					
PZ-01	856.72	38.77	817.95	38.42	818.30
PZ-04	889.01	13.38	875.63	14.25	874.76
PZ-06	915.15	20.51	894.64	23.89	891.26
PZ-08	867.29	31.14	836.15	30.59	836.70
PZ-10	832.02	27.33	804.69	30.36	801.66
PZ-11	823.09	21.56	801.53	24.10	798.99
PZ-12	818.74	27.69	791.05	30.75	787.99
PZ-15	826.86	29.68	797.18	30.76	796.10
PZ-16	800.70	11.16	789.54	13.56	787.14
PZ-17	831.01	37.25	793.76	38.27	792.74
PZ-18	814.51	16.15	798.36	19.93	794.58
PZ-20	787.30	14.59	772.71	17.37	769.93
PZ-23D	834.32	49.37	784.95	50.77	783.55
PZ-26D	804.93	14.04	790.89	17.66	787.27
PZ-27D	809.28	19.71	789.57	19.83	789.45
PZ-28	816.18	28.84	787.34	29.84	786.34
PZ-29S	805.30	22.72	782.58	22.06	783.24
PZ-29D	805.24	24.86	780.38	20.83	784.41
WAMW-1	782.66	20.37	762.29	21.63	761.03
WAMW-2	770.82	13.17	757.65	14.57	756.25

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

Table 4
 Horizontal Groundwater Gradient and Flow Velocity Calculations
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Flow Path Direction	February 28, 2022				August 8, 2022			
	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)
PZ-01 to WGWC-17	817.95	786.32	373	0.085	818.30	785.61	373	0.088
PZ-10 to WGWC-19	804.69	763.77	446	0.092	801.66	762.26	446	0.088

Flow Path Direction	Average for 2022				
	K _h (ft/day)	n _e	i (ft/ft)	V (ft/day) ⁽¹⁾	V (ft/day) ⁽²⁾
PZ-01 to WGWC-17	0.27	0.25	0.086	0.093	0.095
PZ-10 to WGWC-19	0.27	0.25	0.090	0.097	

Notes:
 ft = feet
 ft/day = feet per day
 ft/ft = feet per foot
 h₁, h₂ = groundwater elevation at location 1 and location 2
 L = distance between location 1 and 2
 i = h₁ - h₂ / L = horizontal hydraulic gradient
 K_h = horizontal hydraulic conductivity
 n_e = effective porosity
 V = groundwater flow velocity
 (1) Groundwater flow velocity equation: $V = [K_h * i] / n_e$
 (2) Average groundwater flow velocity for unit.

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWA-1	WGWA-1	WGWA-2	WGWA-2	WGWA-3	WGWA-3	WGWA-4	WGWA-4	WGWA-5	WGWA-5	WGWA-6	WGWA-6
	Sample Date:	3/1/2022	8/15/2022	3/1/2022	8/15/2022	3/1/2022	8/16/2022	2/28/2022	8/16/2022	3/1/2022	8/15/2022	3/1/2022	8/15/2022
	Constituent ^(1,2)												
Appendix III	Boron	<0.060	<0.060	<0.060	0.066 J	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
	Calcium	1.1	1.2	13	12	1.6	1.8	14	16	2.1	51	22	24
	Chloride	4.1	4.0	2.7	2.7	1.8	1.6	1.2	1.2	1.5	1.5	1.5	1.5
	Fluoride	<0.026	<0.040	0.058 J	0.057 J	<0.026	<0.040	0.083 J	0.12	<0.026	<0.040	0.063 J	0.093 J
	pH ⁽³⁾	5.32	5.28	6.20	6.04	5.59	5.46	7.14	6.92	5.47	6.54	7.86	7.76
	Sulfate	<0.76	<0.40	1.6	0.54 J	0.98 J	0.52 J	8.4	6.9	0.99 J	1.6	9.2	7.5
	TDS	30	45	92	100	31	30	95	110	23	140	140	120
Appendix IV	Antimony	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	0.00051 J B	<0.00051	<0.00051	<0.00051	<0.00051
	Arsenic	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
	Barium	0.047	0.045	0.020	0.022	0.014	0.014	0.0053 J	0.0062 J	0.017	0.029	0.0071 J	0.0069 J
	Beryllium	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020
	Cadmium	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078
	Chromium	<0.0015	0.0063	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00073 J	0.0007 J	0.00038 J	0.00045 J	<0.00026	<0.00022	<0.00026	<0.00022	0.0014 J	0.00063 J	<0.00026	<0.00022
	Fluoride	<0.026	<0.040	0.058 J	0.057 J	<0.026	<0.040	0.083 J	0.12	<0.026	<0.040	0.063 J	0.093 J
	Lead	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.00019 J
	Lithium	0.0029 J	0.0032 J	0.0085	0.0070	<0.00083	<0.00083	0.0050	0.0043 J	<0.00083	<0.00083	0.0060	0.0047 J
	Mercury	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080
	Molybdenum	<0.00061	<0.00086	<0.00061	<0.00086	<0.00061	<0.00086	<0.00061	<0.00086	<0.00061	<0.00086	<0.00061	<0.00086
	Comb. Radium 226/228	-0.0398 U	0.559	-0.141 U	0.725	0.238 U	0.628	1.30	2.02	0.428 U	2.38	9.86	9.58
Selenium	<0.00074	<0.0012	<0.00074	<0.0012	<0.00074	<0.0012	<0.00074	<0.0012	<0.00074	<0.0012	<0.00074	<0.0012	
Thallium	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	
Major Ions	Bicarbonate Alkalinity	6.9	--	67	--	11	--	64	--	9.6	--	80	--
	Total Alkalinity	6.9	--	67	--	11	--	64	--	9.6	--	80	--
	Iron	<0.028	--	0.030 J	--	<0.028	--	1.0	--	0.33	--	0.30	--
	Magnesium	1.1	--	4.8	--	1.0	--	2.4	--	0.72	--	2.1	--
	Manganese	0.010	--	0.032	--	<0.0013	--	0.14	--	0.0076	--	0.13	--
	Potassium	1.2	--	2.3	--	1.2	--	2.6	--	1.3	--	3.0	--
	Sodium	3.2	--	9.2	--	2.6	--	7.0	--	1.6	--	5.2	--
Sulfide	5.8	--	5.4	--	6.3	--	8.9	--	9.5	--	5.3	--	

Notes:

-- = Parameter was not analyzed.

TDS = total dissolved solids

< = Indicates the parameter was not detected above the analytical MDL

B = Compound was found in the blank and sample

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6020B and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWA-7	WGWA-7	WGWA-18	WGWA-18	WGWC-8	WGWC-8	WGWC-9	WGWC-9	WGWC-10	WGWC-10	WGWC-11	WGWC-11
	Sample Date:	3/3/2022	8/16/2022	3/3/2022	8/16/2022	3/3/2022	8/16/2022	3/3/2022	8/17/2022	3/3/2022	8/19/2022	3/3/2022	8/16/2022
	Constituent ^(1,2)												
Appendix III	Boron	<0.060	<0.060	0.10	<0.060	2.7	2.3	0.62	0.55	<0.060	<0.060	<0.060	<0.060
	Calcium	1.4	0.94	6.1	8.8	88	83	8.6	9.0	7.1	7.3	1.3	1.6
	Chloride	2.1	1.9	2.0	1.9	130	110	3.5	3.2	1.6	1.4	3.6	3.5
	Fluoride	0.038 J	<0.040	0.078 J	0.060 J	0.19	0.21	1.0	0.90	0.067 J	0.10	0.055 J	<0.040
	pH ⁽³⁾	5.49	5.32	5.94	6.19	5.21	5.40	5.86	5.80	6.36	6.20	5.59	5.56
	Sulfate	<0.76	<0.40	8.5	7.2	250	220	58	50	2.0	1.6	2.3	0.98 J
	TDS	17	22	43	60	530	580	140	150	45	63	21	33
Appendix IV	Antimony	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	0.011	0.0080	0.0043	<0.00051	<0.00051	<0.00051	0.00053 J
	Arsenic	<0.00028	<0.00028	<0.00028	<0.00028	0.0014	0.00097 J	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
	Barium	0.012	0.011	0.013	0.012	<0.0031	0.0014 J	<0.0031	<0.00089	0.033	0.030	0.040	0.038
	Beryllium	<0.00027	<0.00020	<0.00027	<0.00020	0.0027	0.0018 J	0.00036 J	0.00033 J	<0.00027	<0.00020	<0.00027	<0.00020
	Cadmium	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0023	0.0024	<0.0015	<0.0015
	Cobalt	<0.00026	<0.00022	0.0014 J	0.00075 J	0.00030 J	0.00075 J	<0.00026	<0.00022	0.00045 J	0.0014 J	0.00026 J	<0.00022
	Fluoride	0.038 J	<0.040	0.078 J	0.060 J	0.19	0.21	1.0	0.90	0.067 J	0.10	0.055 J	<0.040
	Lead	<0.00017	<0.00017	<0.00017	<0.00017	0.00052 J	0.00041 J	<0.00017	<0.00017	0.00025 J	0.00030 J	<0.00017	<0.00017
	Lithium	<0.00083	<0.00083	<0.00083	<0.00083	0.014	0.014	0.030	0.028	0.0038 J	0.0049 J	<0.00083	0.00092 J
	Mercury	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080
	Molybdenum	<0.00061	<0.00086	<0.00061	<0.00086	<0.00061	<0.00086	0.0027 J	0.0027 J	<0.00061	<0.00086	<0.00061	<0.00086
	Comb. Radium 226/228	0.415	0.653	0.474	1.18	3.18	2.40	0.431 U	0.139 U	0.587	0.497 U	0.622	0.500
Selenium	<0.00074	<0.0012	<0.00074	<0.0012	0.0038 J	0.0075	0.0021 J	0.0022 J	<0.00074	<0.0012	<0.00074	<0.0012	
Thallium	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	
Major Ions	Bicarbonate Alkalinity	8.1	--	25	--	5.6	--	17	--	27	--	8.3	--
	Total Alkalinity	8.1	--	25	--	5.6	--	17	--	27	--	8.3	--
	Iron	<0.028	--	0.22	--	0.058	--	<0.028	--	<0.028	--	0.084	--
	Magnesium	0.68	--	1.1	--	22	--	2.5	--	1.8	--	1.2	--
	Manganese	0.0053	--	0.14	--	0.011	--	0.019	--	0.033	--	0.019	--
	Potassium	0.87	--	2.7	--	9.7	--	1.3	--	1.7	--	1.1	--
	Sodium	2.6	--	4.2	--	39	--	21	--	3.7	--	3.2	--
Sulfide	5.3	--	2.4 J	--	<2.1	--	2.6 J	--	8.1	--	4.6	--	

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-12	WGWC-12	WGWC-13	WGWC-13	WGWC-14A	WGWC-14A	WGWC-15	WGWC-15	WGWC-16	WGWC-16	WGWC-17	WGWC-17
	Sample Date:	3/4/2022	8/18/2022	3/3/2022	8/18/2022	3/3/2022	8/19/2022	3/3/2022	8/17/2022	3/3/2022	8/17/2022	3/4/2022	8/16/2022
	Constituent ^(1,2)												
Appendix III	Boron	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.79	0.73	<0.060	<0.060
	Calcium	12	13	3.4	3.5	0.65	0.64	28	29	24	20	5.3	5.6
	Chloride	3.2	3.0	1.0	0.98 J	2.4	2.1	1.4	1.2	42	35	1.3	1.3
	Fluoride	0.068 J	0.073 J	0.21	0.14	0.057 J	<0.040	0.88	0.68	0.067 J	0.062 J	0.060 J	0.060 J
	pH ⁽³⁾	6.79	6.52	6.31	6.15	5.40	5.25	7.61	7.54	5.22	5.24	6.21	6.02
	Sulfate	14	11	3.0	1.7	1.3	<0.40	18	14	57	49	3.6	3.4
	TDS	89	88	71	89	17	26	140	140	170	170	55	81
Appendix IV	Antimony	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051
	Arsenic	0.00037 J	<0.00028	<0.00028	0.00034 J	<0.00028	<0.00028	0.00057 J	0.00052 J	<0.00028	<0.00028	<0.00028	<0.00028
	Barium	0.016	0.014	0.045	0.041	0.029	0.026	0.029	0.027	0.041	0.032	0.011	0.011
	Beryllium	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020	<0.00027	<0.00020
	Cadmium	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078	<0.00022	<0.000078
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00056 J	0.00034 J	<0.00026	<0.00022	0.0024 J	0.0020 J	<0.00026	<0.00022	<0.00026	<0.00022	0.00026 J	<0.00022
	Fluoride	0.068 J	0.073 J	0.21	0.14	0.057 J	<0.040	0.88	0.68	0.067 J	0.062 J	0.060 J	0.060 J
	Lead	0.00033 J	<0.00017	0.00023 J	0.0011	0.00057 J	0.00036 J	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017
	Lithium	0.0061	0.0063	0.0018 J	0.0024 J	0.0019 J	0.0021 J	0.0068	0.0073	0.0041 J	0.0042 J	0.0042 J	0.0053
	Mercury	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080	<0.00013	<0.000080
	Molybdenum	<0.00061	<0.00086	0.00094 J	0.00087 J	<0.00061	<0.00086	0.0025 J	0.0025 J	<0.00061	<0.00086	0.0021 J	0.0024 J
	Comb. Radium 226/228	0.408	0.279 U	0.621	0.719	0.956	0.932	0.358 U	0.563	0.573	0.946	0.573	0.668
Selenium	<0.00074	<0.0012	<0.00074	<0.0012	<0.00074	<0.0012	<0.00074	<0.0012	0.0018 J	<0.0012	<0.00074	<0.0012	
Thallium	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	<0.00047	<0.00026	
Major Ions	Bicarbonate Alkalinity	43	--	28	--	11	--	94	--	8.5	--	41	--
	Total Alkalinity	43	--	28	--	11	--	94	--	8.5	--	41	--
	Iron	1.5	--	0.080	--	0.23	--	0.038 J	--	0.050	--	0.46	--
	Magnesium	2.9	--	0.53	--	0.74	--	4.8	--	8.5	--	3.4	--
	Manganese	0.013	--	0.0026 J	--	0.057	--	0.011	--	0.022	--	0.016	--
	Potassium	2.0	--	1.8	--	1.6	--	1.5	--	2.6	--	1.5	--
	Sodium	5.8	--	9.6	--	3.8	--	10	--	12	--	8.5	--
Sulfide	<2.1	--	4.3	--	3.5	--	3.0	--	<2.1	--	3.1	--	

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-19	WGWC-19	WGWC-20	WGWC-20	WGWC-20	WGWC-20	WGWC-21	WGWC-21	WGWC-21	WGWC-21
	Sample Date:	3/3/2022	8/17/2022	1/12/2022	3/4/2022	6/7/2022	8/18/2022	1/11/2022	3/3/2022	6/6/2022	8/16/2022
	Constituent ^(1,2)										
Appendix III	Boron	<0.060	<0.060	4.9	4.3	2.8	2.2	0.12	0.12	0.13	0.099
	Calcium	12	9.8	220	200	140	110	57	54	58	55
	Chloride	3.2	2.8	350	330	180	140	44	45	48	41
	Fluoride	0.40	0.28	1.8	2.0	2.5	2.0	1.9	1.8	1.9	1.8
	pH ⁽³⁾	6.69	6.60	5.19	5.23	5.39	5.29	6.68	6.88	6.69	6.72
	Sulfate	4.8	2.8	360	390	280	280	260	250	140	240
	TDS	98	93	1200	1100	920	760	580	580	670	530
Appendix IV	Antimony	<0.00051	0.00058 J	0.00066 J	0.0011 J	<0.00051	<0.00051	<0.00038	0.00053 J	<0.00051	0.00055 J B
	Arsenic	<0.00028	<0.00028	0.00052 J	0.00078 J	0.00033 J	<0.00028	0.00036 J	0.00053 J	0.00083 J	0.00028 J
	Barium	<0.0031	0.0012 J	<0.0016	<0.0031	<0.0031	0.00091 J	0.0076 J	0.0068 J	0.0079 J	0.0039 J
	Beryllium	<0.00027	<0.00020	0.012	0.010	0.0089	0.0081	<0.00018	<0.00027	<0.00027	0.00022 J
	Cadmium	<0.00022	<0.000078	0.00026 J	<0.00022	<0.00022	<0.000078	<0.00022	<0.00022	<0.00022	<0.000078
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00034 J	<0.00022	0.00037 J	<0.00026	<0.00026	<0.00022	0.00032 J	0.00042 J	0.0010 J	0.00039 J
	Fluoride	0.40	0.28	1.8	2.0	2.5	2.0	1.9	1.8	1.9	1.8
	Lead	0.00030 J	<0.00017	<0.00013	<0.00017	<0.00017	<0.00017	<0.00013	<0.00017	<0.00017	<0.00017
	Lithium	0.057	0.056	0.15	0.14	0.12	0.11	0.038	0.044	0.051	0.059
	Mercury	<0.00013	<0.000080	<0.00013	<0.00013	<0.00013	<0.000080	<0.00013	<0.00013	<0.00013	<0.000080
	Molybdenum	0.0013 J	0.0010 J	0.00062 J	<0.00061	<0.00061	<0.00086	0.037	0.036	0.032	0.042
	Comb. Radium 226/228	0.909	0.155 U	1.09	0.925	0.670	0.994	0.919	1.31	2.61	1.35
Selenium	<0.00074	<0.0012	<0.0015	0.0014 J	0.0014 J	0.0027 J	<0.0015	<0.00074	<0.00074	<0.0012	
Thallium	<0.00047	<0.00026	<0.00015	<0.00047	<0.00047	<0.00026	<0.00015	<0.00047	<0.00047	<0.00026	
Major Ions	Bicarbonate Alkalinity	90	--	--	6.8	--	--	--	94	--	--
	Total Alkalinity	90	--	--	6.8	--	--	--	94	--	--
	Iron	0.078	--	--	<0.028	--	--	--	0.49	--	--
	Magnesium	9.5	--	--	49	--	--	--	8.2	--	--
	Manganese	0.016	--	--	0.35	--	--	--	0.84	--	--
	Potassium	1.3	--	--	5.8	--	--	--	2.7	--	--
	Sodium	7.5	--	--	44	--	--	--	110	--	--
Sulfide	4.5	--	--	2.6 J	--	--	--	6.2	--	--	

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-22	WGWC-22	WGWC-22	WGWC-22	WGWC-23	WGWC-23	WGWC-23	WGWC-23	WGWC-24	WGWC-24	WGWC-24	WGWC-24
	Sample Date:	1/11/2022	3/4/2022	6/7/2022	8/19/2022	1/11/2022	3/4/2022	6/6/2022	8/17/2022	1/11/2022	3/3/2022	6/6/2022	8/18/2022
	Constituent ^(1,2)												
Appendix III	Boron	0.39	0.41	0.39	0.33	0.048 J	<0.060	<0.060	<0.060	1.7	1.6	0.64	0.44
	Calcium	32	31	19	18	3.1	4.0	4.5	4.6	51	42	22	16
	Chloride	5.1	5.3	4.3	4.2	2.9	2.9	3.1	3.2	60	50	41	27
	Fluoride	0.45	0.42	0.37	0.31	0.045 J	0.045 J	0.028 J	0.043 J	1.0	0.71	0.43	0.24
	pH ⁽³⁾	5.40	5.34	5.41	5.34	5.61	5.74	5.73	5.64	4.39	4.39	4.52	4.42
	Sulfate	140	150	96	87	5.3	5.0	5.3	5.5	160	130	67	49
	TDS	270	260	210	190	67	69	90	85	320	280	210	140
Appendix IV	Antimony	0.00078 J	0.00082 J	0.00054 J	<0.00051	0.0012 J	0.0018 J	0.0013 J	<0.00051	<0.00038	<0.00051	<0.00051	<0.00051
	Arsenic	<0.00031	0.00046 J	0.00029 J	<0.00028	<0.00031	<0.00028	<0.00028	<0.00028	0.0017	0.0029	0.00054 J	0.00028 J
	Barium	0.040	0.038	0.025	0.023	0.0072 J	0.0081 J	0.0097 J	0.0089 J	0.029	0.028	0.032	0.041
	Beryllium	0.00057 J	0.00066 J	0.00055 J	0.00063 J	0.0012 J	0.00097 J	0.0011 J	0.00078 J	0.014	0.010	0.0062	0.0044
	Cadmium	<0.00022	0.00025 J	<0.00022	0.000090 J	<0.00022	<0.00022	<0.00022	<0.000078	0.00040 J	0.00030 J	0.00030 J	0.00015 J
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00025 J	0.00034 J	<0.00026	<0.00022	0.00016 J	<0.00026	<0.00026	<0.00022	0.11	0.086	0.042	0.031
	Fluoride	0.45	0.42	0.37	0.31	0.045 J	0.045 J	0.028 J	0.043 J	1.0	0.71	0.43	0.24
	Lead	0.00023 J	0.00036 J	<0.00017	0.00037 J	<0.00013	<0.00017	<0.00017	<0.00017	0.00082 J	0.00076 J	0.00047 J	0.00032 J
	Lithium	0.011	0.011	0.0093	0.010 B	<0.0034	0.0015 J	0.0020 J	0.0017 J	0.0091	0.0066	0.0044 J	0.0036 J
	Mercury	<0.00013	<0.00013	<0.00013	<0.000080	<0.00013	<0.00013	<0.00013	<0.000080	<0.00013	<0.00013	<0.00013	<0.000080
	Molybdenum	<0.00061	0.00084 J	<0.00061	<0.00086	<0.00061	<0.00061	<0.00061	<0.00086	<0.00061	<0.00061	<0.00061	<0.00086
	Comb. Radium 226/228	6.91	7.57	4.67	3.07	0.218 U	0.437 U	1.45	0.976	0.749	0.893	0.845	1.03
Selenium	0.0065	0.0072	0.0047 J	0.0035 J	0.0024 J	0.0020 J	0.0018 J	0.0013 J	<0.0015	0.00077 J	<0.00074	<0.0012	
Thallium	<0.00015	0.00047 J	<0.00047	<0.00026	<0.00015	<0.00047	<0.00047	<0.00026	0.00062 J	0.00060 J	0.00052 J	0.00030 J	
Major Ions	Bicarbonate Alkalinity	--	22	--	--	--	29	--	--	--	<5.0	--	--
	Total Alkalinity	--	22	--	--	--	29	--	--	--	<5.0	--	--
	Iron	--	0.25	--	--	--	0.033 J	--	--	--	0.037 J	--	--
	Magnesium	--	7.3	--	--	--	0.46 J	--	--	--	9.6	--	--
	Manganese	--	0.034	--	--	--	0.0050	--	--	--	3.1	--	--
	Potassium	--	6.1	--	--	--	2.2	--	--	--	9.6	--	--
	Sodium	--	28	--	--	--	13	--	--	--	11	--	--
Sulfide	--	5.1	--	--	--	3.9	--	--	--	4.3	--	--	

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-25	WGWC-25	WGWC-25	WGWC-25	WGWC-26D	WGWC-27
	Sample Date:	1/11/2022	3/4/2022	6/7/2022	8/17/2022	10/19/2022	10/19/2022
	Constituent ^(1,2)						
Appendix III	Boron	0.87	0.72	0.78	0.82	2.9 B	0.098 B
	Calcium	16	16	15	15	130	5.9
	Chloride	75	79	79	77	200	5.0
	Fluoride	0.028 J	0.038 J	<0.019	<0.040	1.8	0.52
	pH ⁽³⁾	5.26	5.21	5.32	5.28	6.27	5.93
	Sulfate	21	21	22	25	290	12
	TDS	220	200	240	210	840	92
Appendix IV	Antimony	<0.00038	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051
	Arsenic	<0.00031	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
	Barium	0.38	0.38	0.34	0.31	0.0069 J	0.0036 J
	Beryllium	0.00020 J	<0.00027	0.00030 J	0.00022 J	0.0040	0.00054 J
	Cadmium	<0.00022	<0.00022	<0.00022	0.00012 J	0.00014 J	<0.000078
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	0.0024	<0.0015
	Cobalt	0.0048	0.0040	0.0043	0.0037	0.0016 J	0.0020 J
	Fluoride	0.028 J	0.038 J	<0.019	<0.040	1.8	0.52
	Lead	<0.00013	<0.00017	<0.0017	<0.00017	<0.00017	<0.00017
	Lithium	0.0043 J	0.0035 J	0.0040 J	0.0036 J	0.16	0.0072
	Mercury	<0.00013	<0.00013	<0.00013	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00086	0.0087 J	<0.00086
	Comb. Radium 226/228	0.219 U	0.818	0.500	0.763	3.77	0.185 U
Selenium	<0.0015	<0.00074	<0.00074	<0.0012	0.0014 J	<0.0012	
Thallium	<0.00015	<0.00047	<0.00047	<0.00026	<0.00026	<0.00026	
Major Ions	Bicarbonate Alkalinity	--	16	--	--	--	--
	Total Alkalinity	--	16	--	--	--	--
	Iron	--	0.13	--	--	--	--
	Magnesium	--	20	--	--	--	--
	Manganese	--	0.16	--	--	--	--
	Potassium	--	3.4	--	--	--	--
	Sodium	--	11	--	--	--	--
Sulfide	--	<2.1	--	--	--	--	

Table 6
Summary of Background Concentrations and Groundwater Protection Standards
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Constituent	Units	MCL	CCR-Rule Specified ⁽¹⁾	Background Limit ⁽²⁾	GWPS ⁽³⁾
Antimony	mg/L	0.006		0.0022	0.006
Arsenic	mg/L	0.01		0.0014	0.01
Barium	mg/L	2		0.062	2
Beryllium	mg/L	0.004		0.0025	0.004
Cadmium	mg/L	0.005		0.0025	0.005
Chromium	mg/L	0.1		0.0063	0.1
Cobalt	mg/L	N/A	0.006	0.013	0.013 ⁽³⁾
Fluoride	mg/L	4		0.284	4
Lead	mg/L	N/A	0.015	0.001	0.015 ⁽³⁾
Lithium	mg/L	N/A	0.040	0.009	0.040 ⁽³⁾
Mercury	mg/L	0.002		0.0002	0.002
Molybdenum	mg/L	N/A	0.100	0.015	0.100 ⁽³⁾
Selenium	mg/L	0.05		0.005	0.05
Thallium	mg/L	0.002		0.001	0.002
Combined Radium-226/228	pCi/L	5		10.4	10.4

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

GWPS = Groundwater Protection Standard

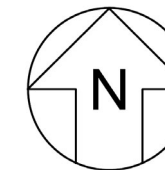
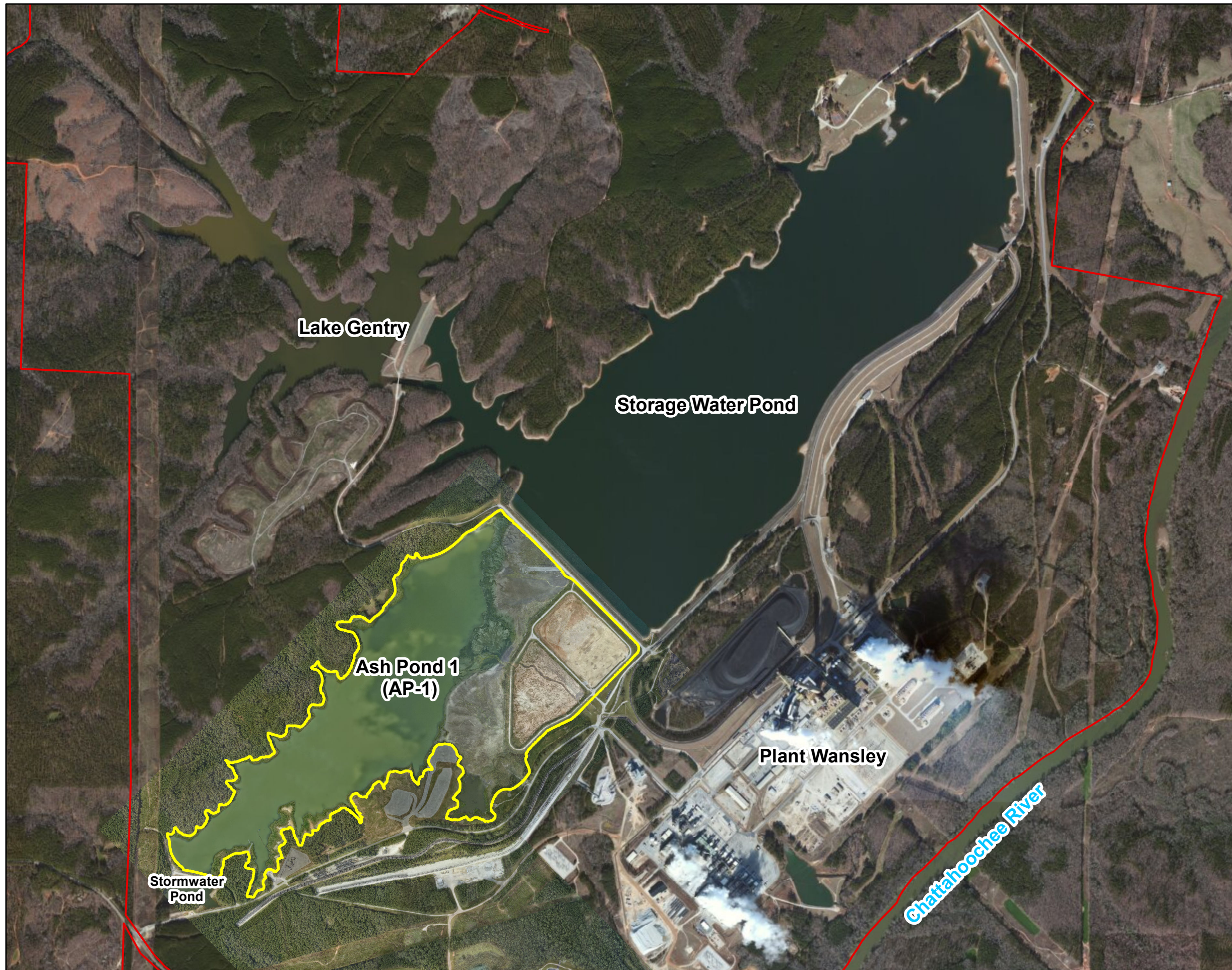
N/A = Not Applicable

(1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.

(2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).

(3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under § 141.62 and § 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

FIGURES



Legend

- Approximate Property Boundary
- Approximate AP-1 Boundary



Notes:
 1. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, June 2018.



SITE LOCATION MAP

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

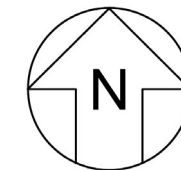
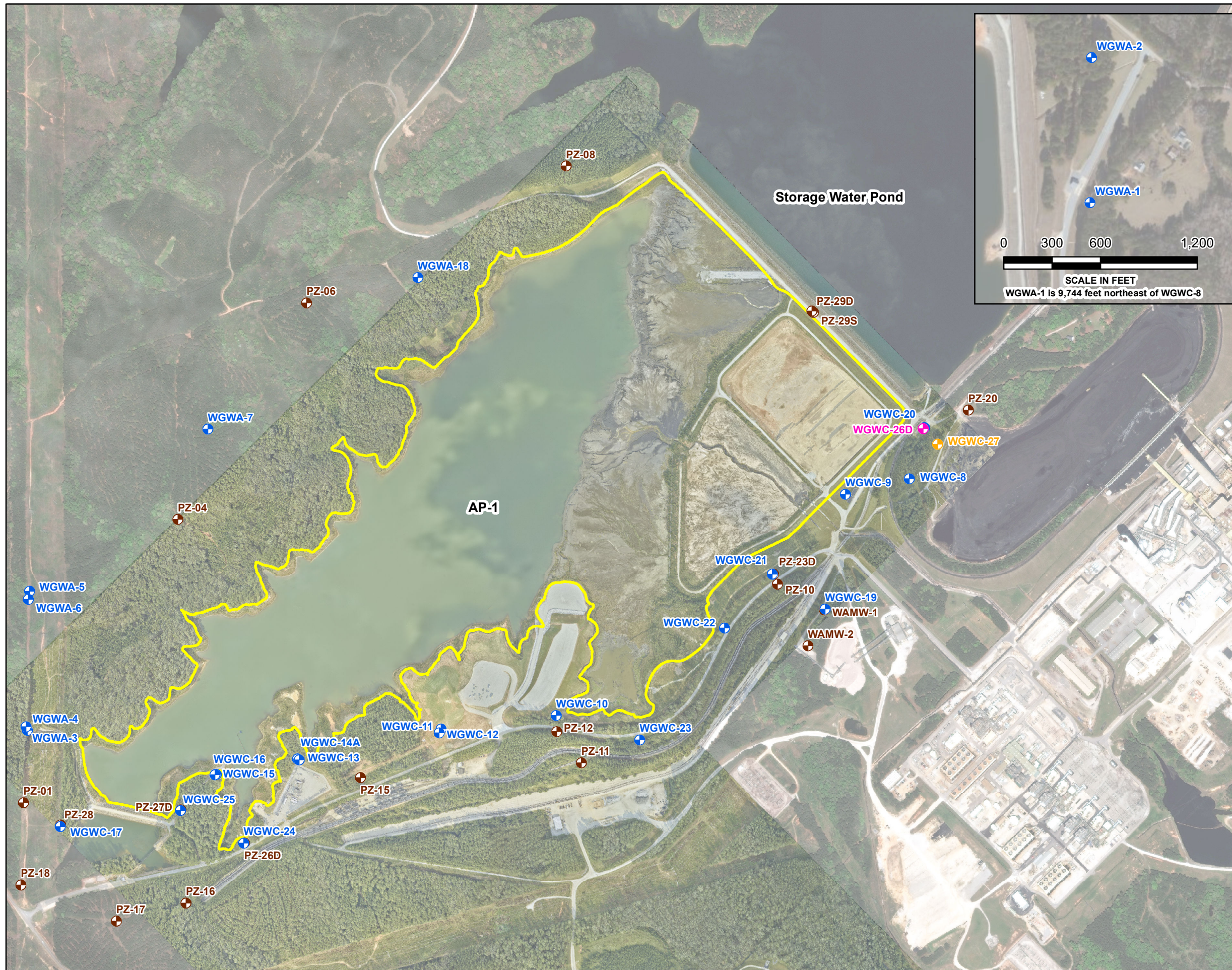
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA

JANUARY 2023

**FIGURE
1**



- Legend**
- + Detection Monitoring Well
 - + Horizontal Assessment Monitoring Well
 - + Vertical Assessment Monitoring Well
 - + Piezometer
 - Approximate AP-1 Boundary

Notes:
 1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, September 9, 2022.
 2. Service Layer Credits for surrounding area: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.
 3. Assessment monitoring wells installed in September 2022.



**GROUNDWATER MONITORING
WELL NETWORK MAP**

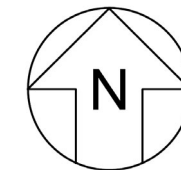
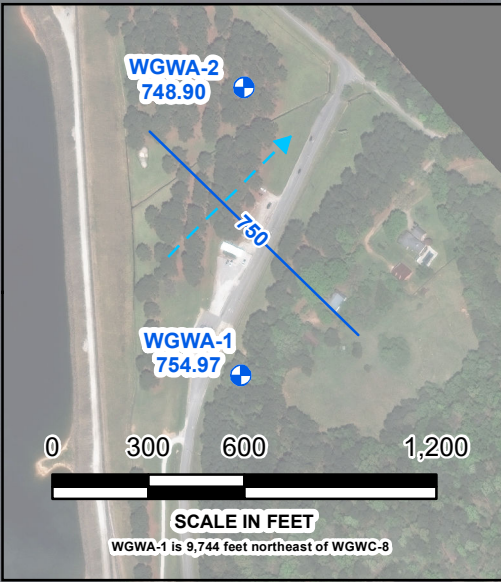
GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

**FIGURE
2**

KENNESAW, GA | JANUARY 2023



- Legend**
- + Detection Monitoring Well
 - + Piezometer
 - Approximate AP-1 Boundary
 - Groundwater Elevation Iso-Contour
 - - - Approximate Groundwater Flow Direction

- Notes:**
1. Water level elevation recorded on February 28, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88. The map shows only the wells/piezometers currently installed at the time of the gauging event.
 2. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, September 9, 2022.
 3. Service Layer Credits for surrounding area: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.
 4. Piezometer PZ-29S is installed within dike material and may not be representative of actual groundwater conditions.



**POTENTIOMETRIC SURFACE CONTOUR
MAP - FEBRUARY 2022**

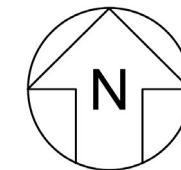
GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA JANUARY 2023

**Figure
3**



Legend

- Detection Monitoring Well
- Piezometer
- Approximate AP-1 Boundary
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction

Notes:

1. Water level elevation recorded on August 8, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88. The map shows only the wells/piezometers currently installed at the time of the gauging event.
2. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, September 9, 2022.
3. Service Layer Credits for surrounding area: 2020-04-05 Worldview Satellite imagery. Purchased from Harris Geospatial.
4. Piezometer PZ-29S is installed within dike material and may not be representative of actual groundwater conditions.



**POTENTIOMETRIC SURFACE CONTOUR
MAP - AUGUST 2022**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power
Prepared By: Geosyntec
consultants

**Figure
4**

KENNESAW, GA JANUARY 2023

APPENDIX A

Well Design, Installation, and Development Report, Plant Wansley Ash Pond 1 (AP-1), December 2022



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

**WELL DESIGN, INSTALLATION, AND
DEVELOPMENT REPORT
PLANT WANSLEY ASH POND-1 (AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327B

December 2022



CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, and Development Report – Plant Wansley Ash Pond 1 (AP-1)* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01(57), a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.”



Date: December 12, 2022
Adria Reimer, P.G.
Georgia Professional Geologist No. 2004
Project Director
Geosyntec Consultants

TABLE OF CONTENTS

1.	INTRODUCTION	1
2.	DRILLING AND WELL INSTALLATION.....	2
	2.1 Drilling Method	2
	2.2 Screened Interval	2
	2.3 Well Casings and Screens.....	2
	2.4 Well Intake Design	3
	2.5 Filter Pack.....	3
	2.6 Annular Seal	4
	2.7 Cap and Protective Casing.....	4
3.	WELL DEVELOPMENT	5
4.	SURVEY	6
5.	REFERENCES	7

LIST OF TABLES

Table 1	Summary of Well Construction Details
---------	--------------------------------------

LIST OF FIGURES

Figure 1	AP-1 Groundwater Monitoring Network Map
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LIST OF APPENDICES

Appendix A	Well Driller Performance Bonds
Appendix B	Boring and Well Construction Logs
Appendix C	Well Development Forms
Appendix D	Certified Well Survey Data

LIST OF ACRONYMS

AP	Ash Pond
ACC	Atlantic Coast Consulting
ASTM	American Society for Testing and Materials
CCR	coal combustion residuals
CFR	Code of Federal Regulations
CFS	Civil Field Services
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of two (2) assessment monitoring wells (WGWC-26D and WGWC-27) to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1).

The well installations were completed to meet the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Wansley is located in Heard and Carroll counties near Carrollton, Georgia. The current groundwater monitoring system at AP-1 includes a network of detection monitoring wells, assessment monitoring wells, and piezometers. The locations of the new assessment monitoring wells, as well as existing wells and piezometers, are shown on **Figure 1**.

2. DRILLING AND WELL INSTALLATION

Well installation activities were performed in accordance with accepted industry standards and following guidelines provided in the *Manual for Groundwater Monitoring* (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Aiken, South Carolina, under contract with, and the supervision of, Southern Company Services (SCS) Civil Field Services (CFS) personnel. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this insurance bond is provided in **Appendix A**. CFS personnel provided oversight of the drilling and installation efforts. A professional geologist employed with Geosyntec Consultants (Geosyntec) and registered to practice in the State of Georgia documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, groundwater elevations, and other field activities.

WGWC-26D and WGWC-27 were installed and completed in September 2022. The locations of these wells are shown on **Figure 1**. Well construction details are provided in **Table 1** and boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using rotasonic drilling techniques with continuous core collection. A track mounted Terra Sonic T-150 drill rig was used to install the wells, using a nominal 6-inch diameter outer drill casing and a 4-inch diameter core barrel. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities.

2.2 Screened Interval

Details regarding well screened intervals are provided in **Table 1**. Wells are screened in the uppermost water bearing unit of the Site. WGWC-26D and WGWC-27 are screened from approximately 749 to 739 feet [referenced to the North American Vertical Datum of 1988 (NAVD 88)]. The wells are constructed with a 10-foot well screen segment.

2.3 Well Casings and Screens

The wells are constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The wells were installed with a 10-foot nominal length U-Pack[®] dual-wall well screen with 0.010-inch slots. The casing and screen arrived pre-

cleaned and packaged by the manufacturer. The U-Pack[®] well screens were constructed onsite by packing sand between slotted PVC and the well screens. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casings and screens are flush-threaded. Solvent or glue was not used to construct the wells. A threaded bottom cap was attached to the bottom of the screens. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.4 Well Intake Design

The wells were designed and constructed to: (i) allow sufficient groundwater flow to the well for sampling; (ii) minimize the passage of formation materials (turbidity) into the well; and (iii) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in the well. The 0.010-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite manufactured by Southern Products and Silica Co. was used as the appropriate gradation for the wells. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the U-Pack[®] well screen and in the annular space between the outside of the U-Pack[®] screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the well screen extended a minimum of two (2) feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, the wells were pumped with a submersible pump to promote settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screen. The depths of top of filter pack were measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two (2) feet of bentonite chips (PelPlug time-release-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacturer's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. In cases where the bentonite seal extended above the estimated water table surface, the bentonite was hydrated with potable water for a duration meeting the manufacturer's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with AQUAGUARD[®] bentonite grout containing 30-percent solids placed via tremie pipe (initial grouting) and direct pour methods (for topping off) from the top of the bentonite seal. During grouting, care was taken to ensure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately two (2) feet above the bentonite seal and injecting grout at low pressure/velocity. A concrete apron measuring 4-feet by 4-feet by 4-inches was poured around the wells. The pads were mounded slightly outward to direct surface drainage away from the wells.

2.7 Cap and Protective Casing

The well risers were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipe to provide an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pads to protect the wells.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The wells were clearly marked with the proper well identification number on the stand-up casings.

3. WELL DEVELOPMENT

The newly installed assessment monitoring wells were developed by Atlantic Coast Consulting (ACC) using a combination of surging and pumping to (i) restore the natural hydraulic conductivity of the formation, and (ii) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, specific conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed, and field parameters were stabilized. The well development and calibration field forms provided by ACC are included in **Appendix C**.

4. SURVEY

Upon completion of the well installations, horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor and certified on October 13, 2022. The top of the PVC well casings [top of casing (TOC) elevations] and the survey pin installed at the well pads were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal locations (i.e., northings and eastings) were recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevations recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the wells is provided in **Appendix D**.

5. REFERENCES

Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.

Geosyntec, 2022. Groundwater Monitoring Plan – Plant Wansley Ash Pond (AP-1). July 2022.

United States Environmental Protection Agency. 2015a. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81, April 2015.

TABLE

Table 1
Summary of Well Construction Details
Plant Wansley AP-1
Heard and Carroll Counties, Georgia

Well ID	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation ⁽²⁾ (ft NAVD88)	Top of Casing Elevation ⁽²⁾ (ft NAVD88)	Top of Screen Elevation ⁽²⁾ (ft NAVD88)	Bottom of Screen Elevation ⁽²⁾ (ft NAVD88)	Well Depth (ft bgs) ⁽³⁾
WGWC-26D	9/26/2022	1243343.66	2029758.85	805.06	808.23	749.31	739.31	66.1
WGWC-27	9/27/2022	1243215.51	2029878.92	778.05	780.54	749.15	739.15	39.2

Notes:

ID = identification

ft = feet

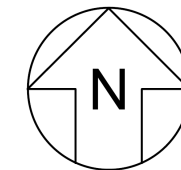
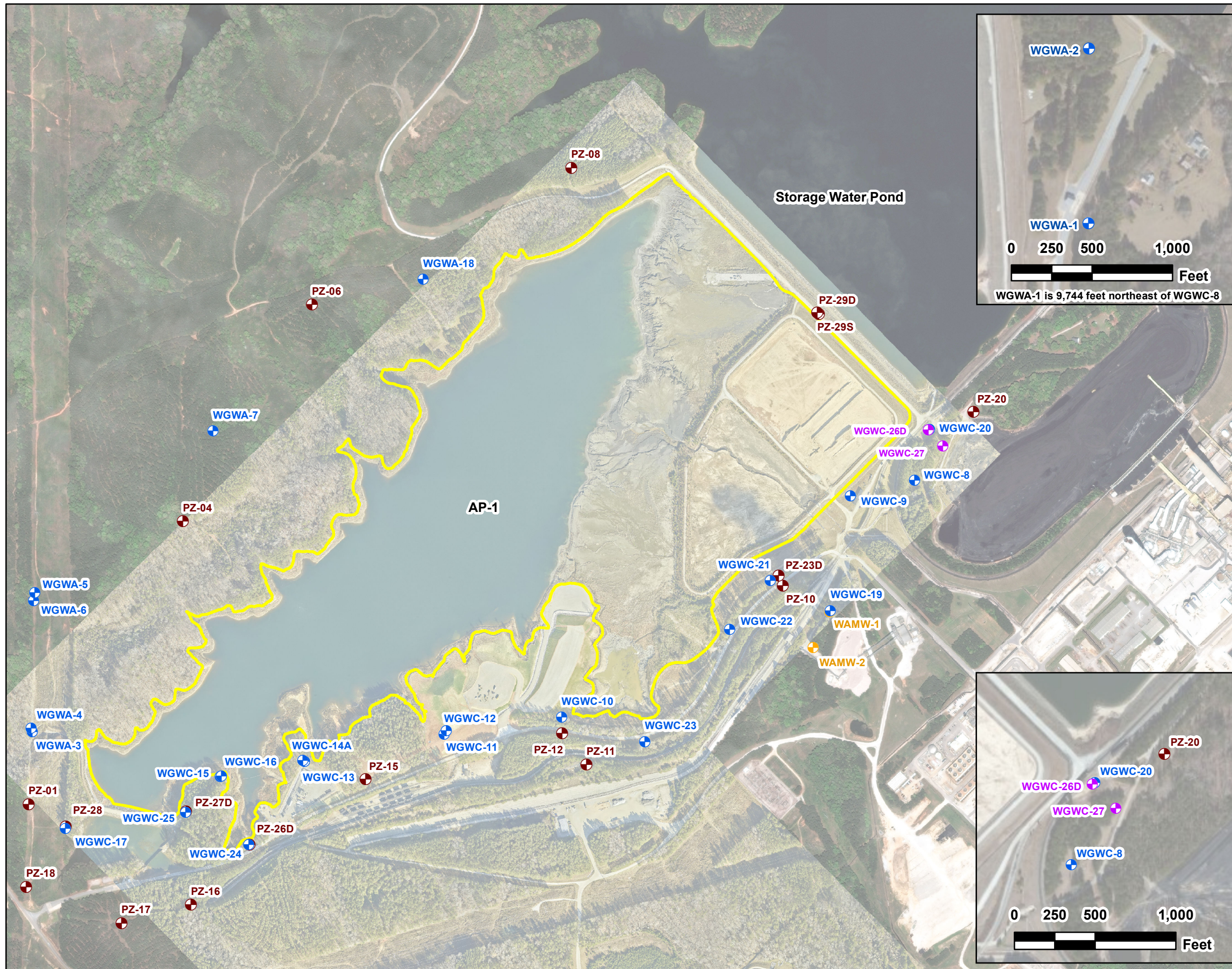
bgs = below ground surface

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified October 13, 2022.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well. Survey was completed by GEL Solutions and certified October 13, 2022.

(3) Total well depth accounts for 0.3-foot sump.

FIGURE



- LEGEND**
- + Detection Monitoring Well
 - + Assessment Monitoring Well
 - + Piezometer
 - + Assessment Monitoring Well installed September 2022
 - Approximate AP-1 Boundary

Notes:
 1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 10, 2022.
 2. Service Layer Credits for surrounding area: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.



AP-1 GROUNDWATER MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA NOVEMBER 2022

FIGURE 1

APPENDIX A

Well Driller Performance Bonds



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson, William M. Smith, Derek Sabo, Charla M. Boadle**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

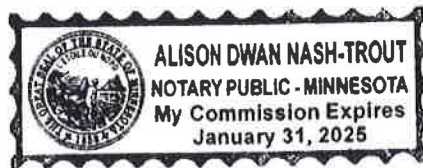
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.



By *Paul J. Brehm*
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

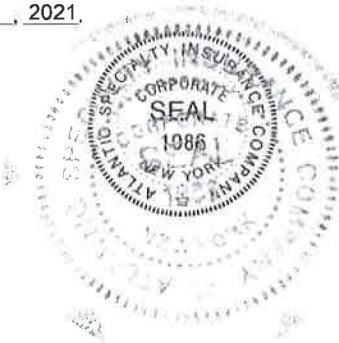


Alison Nash-Trout
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 12 day of April, 2021.

This Power of Attorney expires
January 31, 2025



Kara Barrow
Kara Barrow, Secretary

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on 06/30/2021
(MONTH-DAY-YEAR)

and ending on 06/30/2023
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 12th, 2021
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent
2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

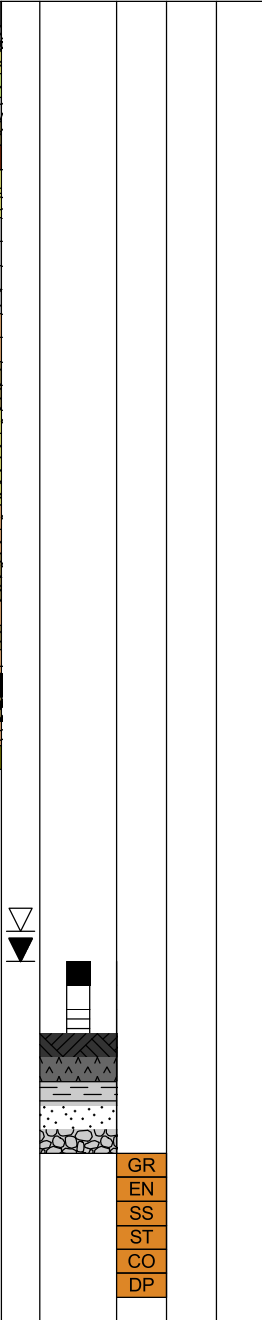
Telephone Number of Agent

APPENDIX B

Boring and Well Construction Logs

BORING AND WELL LOG LEGEND

LITHOLOGY	WATER LEVEL	WELL/BORING COMPLETION	Sample Type	Date & Time	Blow Counts	Recovery (ft)	SOIL/ROCK VISUAL DESCRIPTION	PID (ppm)	Lab Sample
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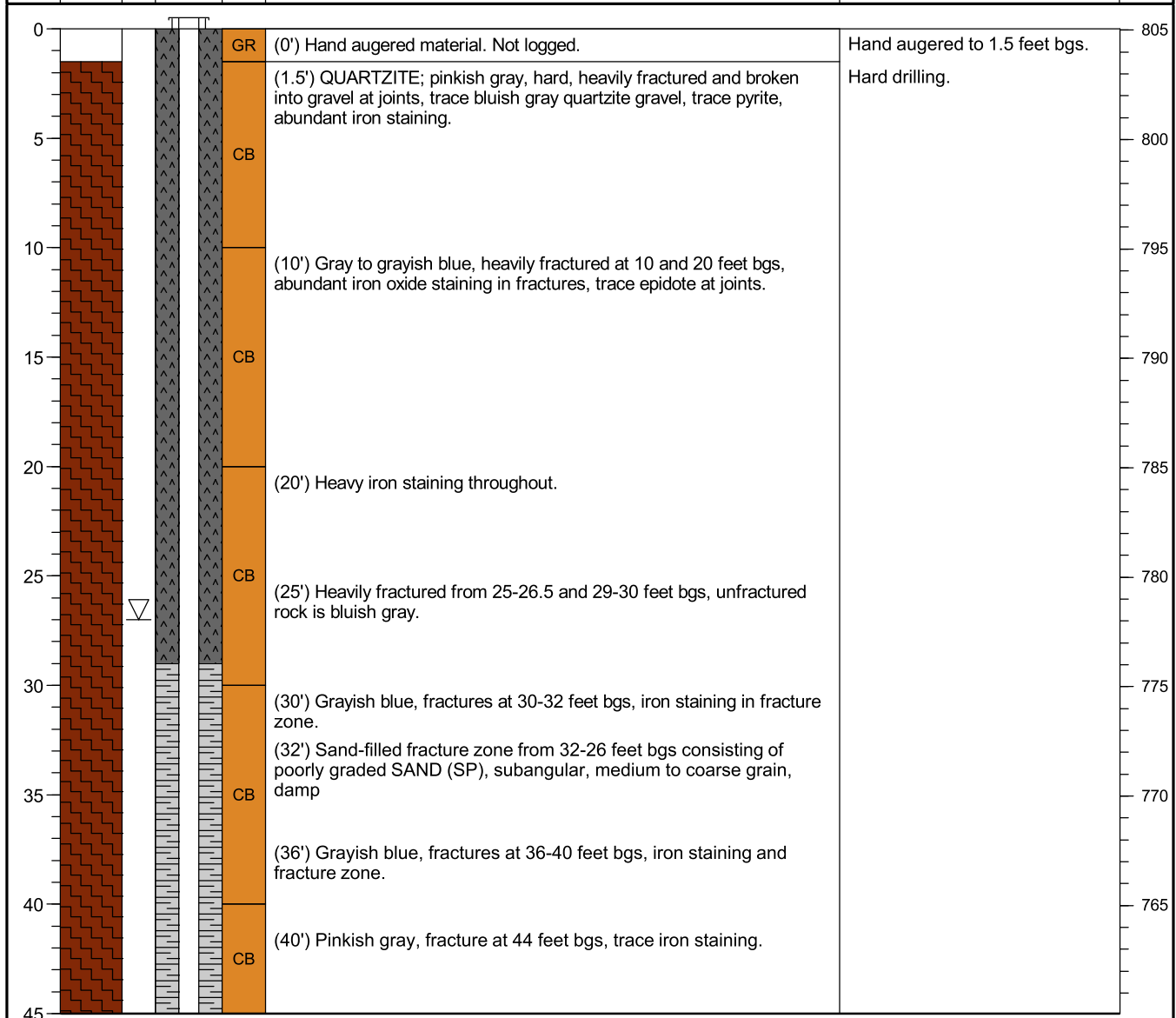
- ASPHALT
- CONCRETE
- FILL
- TOPSOIL
- COBBLES
- IGNEOUS Rock
- METAMORPHIC Rock
- SEDIMENTARY Rock
- PARTIALLY WEATHERED Rock (PWR)
- Well-graded GRAVEL (GW)
- Poorly graded GRAVEL (GP)
- Silty GRAVEL (GM)
- Clayey GRAVEL (GC)
- Well-graded GRAVEL with silt (GW-GM)
- Poorly graded GRAVEL with silt (GP-GM)
- Well-graded GRAVEL with clay (GW-GC)
- Poorly graded GRAVEL with clay (GP-GC)
- Well-graded SAND (SW)
- Poorly graded SAND (SP)
- Silty SAND (SM)
- Clayey SAND (SC)
- Well-graded SAND with silt (SW-SM)
- Poorly graded SAND with silt (SP-SM)
- Well-graded SAND with clay (SW-SC)
- Poorly graded SAND with clay (SP-SC)
- SILT (ML)
- Lean CLAY (CL)
- Organic SOIL (OL)
- Elastic SILT (MH)
- Fat CLAY (CH)
- Organic SOIL (OH)
- PEAT (PT)
- Volume Descriptors:
Trace = <5%
Few = 5-10%
Little = 15-25%
Some = 30-45%
Mostly = >=50%
- Water Level During Drilling
- Water Level at End of Drilling/in Completed Well
- Cap
- Riser
- Screen
- Cement
- Bentonite Grout
- Bentonite Seal
- Filter Pack
- Backfill
- Grab
- Encore
- Split Spoon
- Shelby Tube
- Core Barrel
- Direct Push
- Lab Sample and ID

0.0	ID

NOTES:

Drilling Start Date: 09/26/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 69.57
Drilling End Date: 09/26/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW During Drilling (ft): 27.0	Riser Material: Sch 40 PVC
Drilling Equipment: Terrasonic	Ground Surface Elev. (ft): 805.06 NAV88	Screen Material: Sch 40 PVC Slotted
Driller: Cory Franklin	Top of Casing Elev. (ft): 808.23 NAV88	Seal Material(s): Grout/Bentonite
Logged By: T. Kessler	Location (N,E): 1243343.658, 2029758.846	Filter Pack: 20/40 Sand

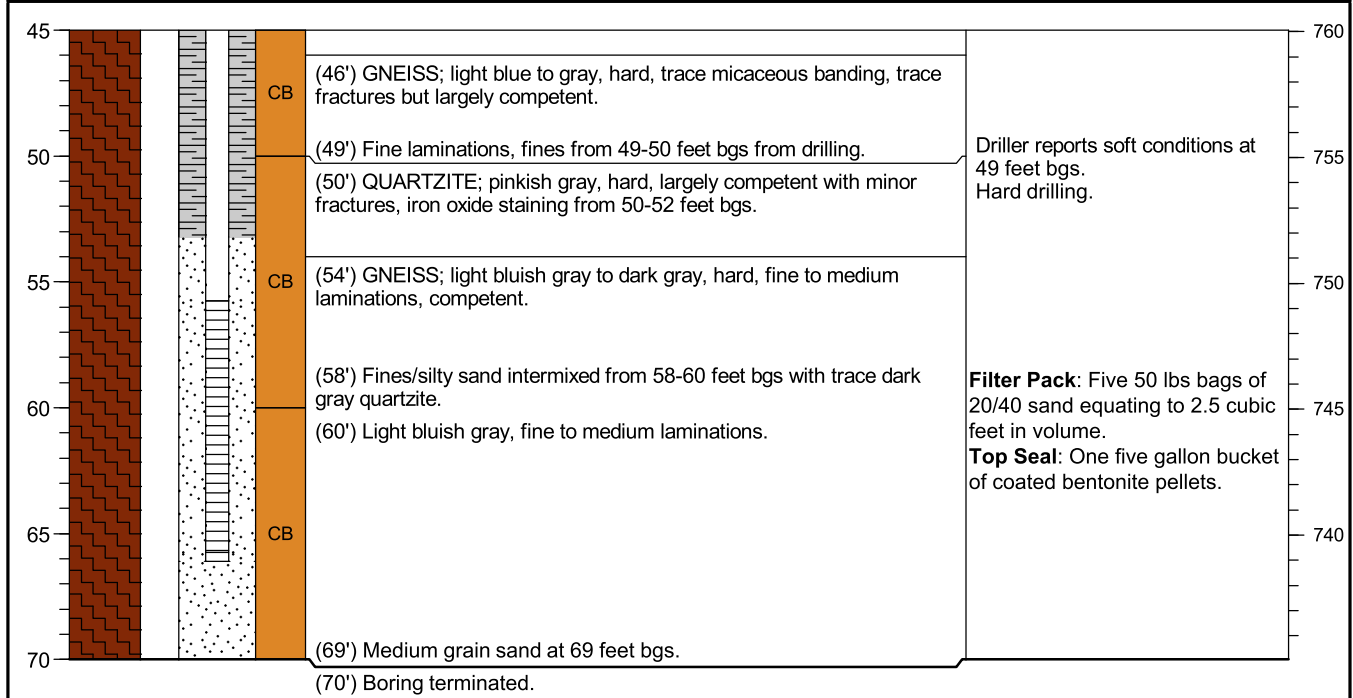
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
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NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Well completed with aboveground (+3.17 ft) PVC stickup. Well depth measured from top of casing (TOC). Seal extended due to proximity of adjacent well screen.

Drilling Start Date: 09/26/2022	Boring Depth (ft): 70	Well Depth (ft TOC): 69.57
Drilling End Date: 09/26/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW During Drilling (ft): 27.0	Riser Material: Sch 40 PVC
Drilling Equipment: Terrasonic	Ground Surface Elev. (ft): 805.06 NAV88	Screen Material: Sch 40 PVC Slotted
Driller: Cory Franklin	Top of Casing Elev. (ft): 808.23 NAV88	Seal Material(s): Grout/Bentonite
Logged By: T. Kessler	Location (N,E): 1243343.658, 2029758.846	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
------------	-----------	-------------	-----------------	-------------	------------------------------	---------	----------------------



NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Well completed with aboveground (+3.17 ft) PVC stickup. Well depth measured from top of casing (TOC). Seal extended due to proximity of adjacent well screen.

Drilling Start Date: 09/26/2022	Boring Depth (ft): 40	Well Depth (ft TOC): 42.18
Drilling End Date: 09/27/2022	Boring Diameter (in): 6	Well Diameter (in): 2
Drilling Company: Cascade Drilling	Sampling Method(s): Core Barrel	Screen Slot (in): 0.010
Drilling Method: Sonic 4x6	DTW During Drilling (ft): 29.0	Riser Material: Sch 40 PVC
Drilling Equipment: Terrasonic	Ground Surface Elev. (ft): 778.05 NAV88	Screen Material: Sch 40 PVC Slotted
Driller: Cory Franklin	Top of Casing Elev. (ft): 780.54 NAV88	Seal Material(s): Grout/Bentonite
Logged By: T. Kessler	Location (N,E): 1243215.513, 2029878.918	Filter Pack: 20/40 Sand

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	Sample Type	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft NAV88)
0					(0') CLAY (CL); reddish-brown, moist, firm, medium plasticity, coarse angular gravel throughout with trace silt and sand.	Hand augered to 10 feet bgs.	775
5				GR	(5') PARTIALLY WEATHERED ROCK; relict rock structures from 5-10 feet bgs.		770
10					(10') Yellowish red, relict rock structures throughout.		765
15				CB	(16.5') SANDY SILTY CLAY (CL); white to pinkish white, moist, firm, medium to low plasticity, relict rock structures throughout.		760
20					(23') White, dry, hard, friable, light gray gneiss fragments throughout.	Rock encountered at 26 feet bgs; hard drilling. PWR appears to be gneiss. Wet zone largely influenced by drilling water in rods. No signs of staining.	755
25				CB	(23.5') SILTY CLAY (CL-ML); yellowish red, wet, soft, low plasticity to nonplastic, trace fine sand.		750
30					(25') SANDY CLAY (CL); white to pinkish white, dry to moist, firm, low to medium plasticity, PWR throughout.		745
35				CB	(26') GNEISS; dark to light gray, dry, hard, competent, trace quartzite banding throughout, trace garnets, trace hornblende and plagioclase.		740
35					(29') Light gray, wet, fractured, abundant fine to coarse sand and trace silt.	Filter Pack: Six 50 lbs bags 20/40 sand equating to 3 cubic feet in volume. Top Seal: One five gallon bucket of coated bentonite pellets	745
35					(30') Heavily fractured, abundant iron oxide staining throughout but heavy from 30-32 feet bgs.		740
40					(35') Stiff, broken into gravel with fine to medium grain light gray sand.	Very hard drilling. Rod drop from 36.5 to 37 feet bgs.	740
40					(40') Boring terminated.		740

NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Well completed with aboveground (+2.49 feet) PVC stickup. Well depth measured from top of casing (TOC).

APPENDIX C

Well Development Forms



Daily Instrument Calibration Log

SITE: Plant Wansley - Plant Branch
 TECHNICIAN: A Schmitt
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 850724
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTION/S: ID: pH 4 LOT #: 16K617 EXP. DATE: 11/23
 ID: pH 7 LOT #: 26C169 EXP. DATE: 3/24
 ID: pH 10 LOT #: 16F458 EXP. DATE: 6/23
 ID: Ca LOT #: 26B1062 EXP. DATE: 2/23
 ID: ORP LOT #: 2114043 EXP. DATE: 4/23 *Midday pH check*
 ID: LOT #: EXP. DATE: *Must be less than .10*
 ID: LOT #: EXP. DATE: (6.90-7.10 range)
Recalibrate if not within range

Calibration Date: 10/11
 RDO: 100% sat. = 110.26 *Midday pH check*
 PH: 4.00 = 4.16 7.00 = 7.25 10.00 = 10.10 7.0 = 7.03
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1659.9
 ORP (mV) 228 = 224.1

Calibration Date: 10/12
 RDO: 100% sat. = 96.60 *Midday pH check*
 PH: 4.00 = 4.07 7.00 = 7.10 10.00 = 10.02 7.0 = 6.99
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1207.6
 ORP (mV) 228 = 245

Calibration Date:
 RDO: 100% sat. = *Midday pH check*
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = *Midday pH check*
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = *Midday pH check*
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley ~~Plant Branch~~
TECHNICIAN: A Schmitt

INSTRUMENT S/N: 22080P001127
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh D) Water
10 NTU - LOT # A2085 EXP. DATE: 7/23
20 NTU - LOT # A2200 EXP. DATE: 11/23

Calibration Date: 10/11

Calibration Solution	Instrument Reading	
0.0	0.19	NTU
10.0	9.32	NTU
20.0	20.4	NTU

Calibration Date: 10/12

Calibration Solution	Instrument Reading	
0.0	0.23	NTU
10.0	9.15	NTU
20.0	20.0	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Report

Instrument Aqua TROLL 400
Serial Number 850724
Created 10/11/2022

Sensor **RDO**

Serial Number 932359
Last Calibrated 10/11/2022

Calibration Details

Slope 0.9640526
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.41 mg/L
Temperature 19.41 °C
Barometric Pressure 999.31 mbar

Sensor **Conductivity**

Serial Number 850724
Last Calibrated 10/11/2022

Calibration Details

Cell Constant 0.837
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850399
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21482
Last Calibrated	10/11/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	157.6 mV
Temperature	18.53 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-16.6 mV
Temperature	17.41 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-174.5 mV
Temperature	17.53 °C

Slope and Offset 1

Slope	-57.3 mV/pH
Offset	-14.3 mV

Slope and Offset 2

Slope	-52.48 mV/pH
Offset	-14.5 mV

ORP

ORP Solution	Zobell's
Offset	19.6 mV
Temperature	17.90 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 850724
Created 10/12/2022

Sensor **RDO**

Serial Number 932359
Last Calibrated 10/12/2022

Calibration Details

Slope 0.996969
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.94 mg/L
Temperature 20.03 °C
Barometric Pressure 994.90 mbar

Sensor **Conductivity**

Serial Number 850724
Last Calibrated 10/12/2022

Calibration Details

Cell Constant 0.892
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850399
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21482
Last Calibrated	10/12/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	154.4 mV
Temperature	20.06 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	-19.4 mV
Temperature	19.96 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-174.8 mV
Temperature	20.02 °C

Slope and Offset 1

Slope	-57.55 mV/pH
Offset	-18.3 mV

Slope and Offset 2

Slope	-51.26 mV/pH
Offset	-18.4 mV

ORP

ORP Solution	Zobell's
Offset	10.1 mV
Temperature	19.96 °C

Atlantic Coast Consulting, Inc. Well Development Field Record

Job Name: <u>Plant Wansley AP Well Developments</u>	Job No. <u>I054-118</u> Well ID <u>WGWC-26D</u>
Developed By: <u>A. Schnittker</u>	Date of Installation: <u>9/25/2022</u> Sheet <u>1</u> of <u>1</u>
Started Dev. <u>10/11/2022 11:00</u>	Completed Dev. <u>10/11/2022 16:20</u>
Date / Time	Date / Time
W.L. Before Dev. <u>31.99 10/11/2022 10:35</u>	W.L. After Dev. <u>40.21 10/11/2022 16:20</u>
BTOC / Date / Time	BTOC / Date / Time
Well Depth Before Dev.: <u>69.54</u> BTOC	Well Depth After Dev.: <u>69.57</u> BTOC
Water Column (H): <u>37.6</u> Ft. Well Dia.: <u>2</u> In.	Well Volume: <u>6.00</u> Gal. Screen Length: <u>10</u> Ft.

Date / Time	Volume Removed (Gal.)	Field Parameters						Remarks
		pH (S.U.)	Specific Cond. (umhos/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP	
10-11-22 / 1220	15	6.13	1100	2.6	125	22.4	64	
10-11-22 / 1300	25	6.01	990	3.1	31	22.9	30	
10-11-22 / 1350	35	6.09	950	3.40	27.5	25.2	50	
10-11-22 / 1420	40	6.09	933	3.6	11.2	26.8	64	
10-11-22 / 1450	45	6.08	934	3.4	10.0	25.4	64	
10-11-22 / 1500	47	6.06	935	3.2	6.21	24.7	62	
10-11-22 / 1505	50	6.05	935	2.9	5.47	25.1	63	
10-11-22 / 1540	55	6.01	936	2.9	5.05	24.6	61	
10-11-22 / 1555	58	6.02	924	2.8	4.64	25.4	69	
10-11-22 / 1600	60	6.00	911	2.7	3.30	24.9	75	
Total Volume Removed:	60 gallons / 10 well vol.							

Development Method: Surged well and developed using a reclaimer pump.

Notes: H = well depth (BTOC) - W.L. (BTOC)
 2" diameter well: 0.16 X H = volume in gallons
 4" diameter well: 0.66 X H = volume in gallons

Atlantic Coast Consulting, Inc.

Well Development Field Record

Job Name: <u>Plant Wansley AP Well Developments</u>	Job No. <u>I054-118</u> Well ID <u>WGWC-27</u>
Developed By: <u>A. Schnittker</u>	Date of Installation: <u>9/27/2022</u> Sheet <u>1</u> of <u>1</u>
Started Dev. <u>10/12/2022 9:25</u>	Completed Dev. <u>10/12/2022 15:00</u>
Date / Time	Date / Time
W.L. Before Dev. <u>11.31 10/12/2022 09:10</u>	W.L. After Dev. <u>39.50 10/12/2022 15:20</u>
BTOC / Date / Time	BTOC / Date / Time
Well Depth Before Dev.: <u>42.17</u> BTOC	Well Depth After Dev.: <u>42.18</u> BTOC
Water Column (H): <u>30.9</u> Ft. Well Dia.: <u>2</u> In.	Well Volume: <u>4.90</u> Gal. Screen Length: <u>10</u> Ft.

Date / Time	Volume Removed (Gal.)	Field Parameters						Remarks
		pH (S.U.)	Specific Cond. (umhos/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP	
10-12-22 / 0955	5	6.32	286	4.7	>1000	19.7	61	
10-12-22 / 1035	10	6.24	147	7.3	19.1	19.8	56	
10-12-22 / 1315	25	5.97	130	5.1	20.9	20.4	85	
10-12-22 / 1330	27	5.98	115	5.4	11.1	19.9	87	
10-12-22 / 1340	28	5.98	110	5.9	7.41	19.5	83	
10-12-22 / 1400	30	5.97	108	5.8	7.67	19.7	84	
10-12-22 / 1415	31.5	5.98	107	5.5	6.91	19.6	82	
10-12-22 / 1430	33	5.96	100	5.7	6.43	20.1	92	
10-12-22 / 1445	35.5	5.96	99	6.0	6.12	19.8	91	
10-12-22 / 1450	36	5.95	98	6.1	5.27	20.3	94	
10-12-22 / 1455	36.5	5.94	98	6.6	4.31	19.9	92	
10-12-22 / 1500	37	5.95	99	6.0	1.24	22.2	99	
Total Volume Removed:	37 gallons / 7.6 well vol.							

Development Method: Surged well and developed using a reclaimer pump.

Notes: H = well depth (BTOC) - W.L. (BTOC)
 2" diameter well: 0.16 X H = volume in gallons
 4" diameter well: 0.66 X H = volume in gallons

APPENDIX D

Certified Well Survey Data

GEL ENGINEERING OF NC INC
Plant Wansley Monitoring Wells

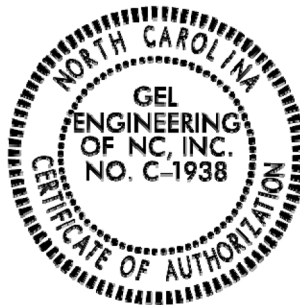
Field Surveys: 10/11/2022

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
WGWC-26D	1243343.658	2029758.846	808.23	1243344.161	2029757.977	805.06	NAIL
WGWC-27	1243215.513	2029878.918	780.54	1243215.002	2029879.991	778.05	NAIL
CSB-2022-01	1243334.918	2029756.286	804.93	N/A	N/A	N/A	BORING
CSB-2022-02	1243337.255	2029761.150	804.86	N/A	N/A	N/A	BORING
CSB-2022-03	1243341.239	2029768.805	804.81	N/A	N/A	N/A	BORING
Benchmark	Northing	Easting	Elevation				
BM-W1	1243475.416	2029633.083	804.08				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 10/11/2022. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 & R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-W1 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL



10/13/2022



COA - LS003119
 Exp. 12/31/2022

APPENDIX B

Well Maintenance and Repair Documentation Memoranda



ATLANTIC COAST
CONSULTING, INC.

1150 Northmeadow Parkway
Suite 100
Roswell GA 30076
(770) 594-5998
www.atlcc.net

MEMORANDUM

Date: June 28, 2022
To: Kristen Jurinko – Southern Company Services
From: Atlantic Coast Consulting
Subject: Plant Wansley Ash Pond - Well Maintenance and Repair Documentation
Georgia Power Company

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repair performed at Plant Wansley during the 2022 Semiannual Groundwater Monitoring reporting period. No repairs or well maintenance were necessary during the reporting period.

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

1 - Location/Identification		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

2 - Protective Outer Casing		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

3 - Surface Pad		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

4 - Internal Well Casing		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

1 - Location/Identification		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

3 - Surface Pad		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Plant Wansley Ash Pond
February 2022 Well Inspection Form

4 - Internal Well Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

1 - Location/Identification		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

3 - Surface Pad

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

4 - Internal Well Casing

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
	1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

1 - Location/Identification		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

2 - Protective Outer Casing		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

3 - Surface Pad		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

4 - Internal Well Casing

		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".



ATLANTIC COAST
CONSULTING, INC.

1150 Northmeadow Parkway
Suite 100
Roswell GA 30076
(770) 594-5998
www.atlcc.net

MEMORANDUM

Date: December 13, 2022
To: Trey Singleton – Southern Company Services
From: Atlantic Coast Consulting
Subject: Plant Wansley Ash Pond- Well Maintenance and Repair Documentation
Georgia Power Company

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repair performed at Plant Wansley during the 2022 Annual Groundwater Monitoring reporting period. No repairs or well maintenance was necessary during the reporting period.

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

1 - Location/Identification		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
August 2022 Well Inspection Form

3 - Surface Pad		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
August 2022 Well Inspection Form

4 - Internal Well Casing		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

- 1) WGWA-1 bladder pump operational but possible leak in air line.
- 2) Cleaned debris off well pad WGWA-2.

Staff: T. Goble
Date: 8/8/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
August 2022 Well Inspection Form

1 - Location/Identification		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
August 2022 Well Inspection Form

3 - Surface Pad		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Plant Wansley Ash Pond
August 2022 Well Inspection Form

4 - Internal Well Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: T. Goble
Date: 8/8/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
August 2022 Well Inspection Form

1 - Location/Identification

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

3 - Surface Pad		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
August 2022 Well Inspection Form

4 - Internal Well Casing		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: T. Goble
Date: 8/8/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

1 - Location/Identification		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

2 - Protective Outer Casing		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

3 - Surface Pad		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
August 2022 Well Inspection Form

4 - Internal Well Casing		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

**Plant Wansley Ash Pond
August 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: T. Goble
Date: 8/8/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".



ATLANTIC COAST
CONSULTING, INC.

1150 Northmeadow Parkway
Suite 100
Roswell GA 30076
(770) 594-5998
www.atlcc.net

MEMORANDUM

Date: October 12, 2022
To: Trey Singleton – Southern Company Services
From: Atlantic Coast Consulting
Subject: Plant Wansley Ash Pond- Well Maintenance and Repair Documentation
Georgia Power Company

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repair performed at Plant Wansley during the 2022 Annual Groundwater Monitoring reporting period. Minor repairs or well maintenance was necessary. ACC added weep holes where needed, replaced one well lock, and added two labels during the reporting period.

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

1 - Location/Identification		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
October 2022 Well Inspection Form

3 - Surface Pad		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
October 2022 Well Inspection Form

4 - Internal Well Casing		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: A. Schnittker
Date: 10/11/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
October 2022 Well Inspection Form

1 - Location/Identification		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
October 2022 Well Inspection Form

2 - Protective Outer Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
October 2022 Well Inspection Form

3 - Surface Pad		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

4 - Internal Well Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: A. Schnittker
Date: 10/11/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

1 - Location/Identification		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

3 - Surface Pad		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

4 - Internal Well Casing		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

1) WGWC-24: Replaced lock and drilled new weep hole.

Staff: A. Schnittker

Date: 10/11/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

1 - Location/Identification		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

2 - Protective Outer Casing		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

3 - Surface Pad		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
October 2022 Well Inspection Form

4 - Internal Well Casing		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

**Plant Wansley Ash Pond
October 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

- 2) PZ-29D: Added well label.
- 3) PZ-29S: Added well label.

Staff: A. Schnittker

Date: #####

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

APPENDIX C

Analytical Laboratory Results and Field Sampling Forms

Appendix C1: Laboratory Analytical Data Packages and Data
Validation Reports

Appendix C2: Field Sampling Forms

APPENDIX C1

Analytical Laboratory Data Packages and Data Validation Reports

Laboratory Reports

ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-132517-1

Client Project/Site: Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
1/25/2022 7:37:26 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	21
QC Association Summary	24
Chain of Custody	26
Receipt Checklists	30

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Job ID: 180-132517-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-132517-1

Receipt

The samples were received on 1/14/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.2°C, 1.5°C and 1.6°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-385392 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540C_Calcd: The following sample(s) was analyzed outside of analytical holding time because they were initially logged in by the Eurofins Savannah location and were not received until 01-18-21.. WGWC-21 (180-132517-2), WGWC-22 (180-132517-3), WGWC-23 (180-132517-4), WGWC-24 (180-132517-5), WGWC-25 (180-132517-6), EB-1 (180-132517-7), FB-1 (180-132517-8) and Dup-1 (180-132517-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-132517-1	WGWC-20	Water	01/12/22 12:45	01/14/22 08:00
180-132517-2	WGWC-21	Water	01/11/22 12:57	01/14/22 08:00
180-132517-3	WGWC-22	Water	01/11/22 15:53	01/14/22 08:00
180-132517-4	WGWC-23	Water	01/11/22 14:50	01/14/22 08:00
180-132517-5	WGWC-24	Water	01/11/22 13:35	01/14/22 08:00
180-132517-6	WGWC-25	Water	01/11/22 16:40	01/14/22 08:00
180-132517-7	EB-1	Water	01/11/22 14:30	01/14/22 08:00
180-132517-8	FB-1	Water	01/11/22 14:40	01/14/22 08:00
180-132517-9	Dup-1	Water	01/11/22 13:35	01/14/22 08:00

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 16:43	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		10			385392	01/18/22 16:56	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:16	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 10:54	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			385985	01/12/22 12:45	KAR	TAL PIT

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 17:08	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			385392	01/18/22 17:20	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:30	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 10:55	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			385985	01/11/22 12:57	KAR	TAL PIT

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 15:54	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:34	RSK	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 10:56	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			385985	01/11/22 15:53	KAR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			385392	01/18/22 17:58	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			385876	01/21/22 09:38	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 10:57	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			385985	01/11/22 14:50	KAR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			385392	01/18/22 18:12	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			385876	01/21/22 09:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 10:59	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			385985	01/11/22 13:35	KAR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 18:26	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:45	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 11:00	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			385985	01/11/22 16:40	KAR	TAL PIT

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 18:39	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:49	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 11:01	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT

Client Sample ID: FB-1

Lab Sample ID: 180-132517-8

Date Collected: 01/11/22 14:40

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 18:53	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:52	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 11:02	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: Dup-1

Lab Sample ID: 180-132517-9

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			385392	01/18/22 19:07	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			385876	01/21/22 09:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 11:03	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

MM1 = Mary Beth Miller

Batch Type: Analysis

JCR = Jessica Rodgers

JRB = James Burzio

KAR = Kacy Reitnauer

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		10	7.1	mg/L			01/18/22 16:56	10
Fluoride	1.8		0.10	0.026	mg/L			01/18/22 16:43	1
Sulfate	360		10	7.6	mg/L			01/18/22 16:56	10

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00066	J	0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:16	1
Arsenic	0.00052	J	0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:16	1
Barium	<0.0016		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:16	1
Beryllium	0.012		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:16	1
Boron	4.9		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:16	1
Cadmium	0.00026	J	0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:16	1
Calcium	220		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:16	1
Cobalt	0.00037	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:16	1
Lithium	0.15		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:16	1
Molybdenum	0.00062	J	0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.19				SU			01/12/22 12:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44		1.0	0.71	mg/L			01/18/22 17:08	1
Fluoride	1.9		0.10	0.026	mg/L			01/18/22 17:08	1
Sulfate	260		5.0	3.8	mg/L			01/18/22 17:20	5

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:30	1
Arsenic	0.00036	J	0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:30	1
Barium	0.0076	J	0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:30	1
Boron	0.12		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:30	1
Calcium	57		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:30	1
Cobalt	0.00032	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:30	1
Lithium	0.038		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:30	1
Molybdenum	0.037		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:30	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:30	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.68				SU			01/11/22 12:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.71	mg/L			01/18/22 15:54	1
Fluoride	0.45		0.10	0.026	mg/L			01/18/22 15:54	1
Sulfate	140	F1	1.0	0.76	mg/L			01/18/22 15:54	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00078	J	0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:34	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:34	1
Barium	0.040		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:34	1
Beryllium	0.00057	J	0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:34	1
Boron	0.39		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:34	1
Calcium	32		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:34	1
Cobalt	0.00025	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:34	1
Lead	0.00023	J	0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:34	1
Lithium	0.011		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:34	1
Selenium	0.0065		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.40				SU			01/11/22 15:53	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			01/18/22 17:58	1
Fluoride	0.045	J	0.10	0.026	mg/L			01/18/22 17:58	1
Sulfate	5.3		1.0	0.76	mg/L			01/18/22 17:58	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0012	J	0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:38	1
Barium	0.0072	J	0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:38	1
Beryllium	0.0012	J	0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:38	1
Boron	0.048	J	0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:38	1
Calcium	3.1		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:38	1
Cobalt	0.00016	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:38	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:38	1
Selenium	0.0024	J	0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	67	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.61				SU			01/11/22 14:50	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		1.0	0.71	mg/L			01/18/22 18:12	1
Fluoride	1.0		0.10	0.026	mg/L			01/18/22 18:12	1
Sulfate	160		1.0	0.76	mg/L			01/18/22 18:12	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:41	1
Arsenic	0.0017		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:41	1
Barium	0.029		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:41	1
Beryllium	0.014		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:41	1
Boron	1.7		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:41	1
Cadmium	0.00040	J	0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:41	1
Calcium	51		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:41	1
Cobalt	0.11		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:41	1
Lead	0.00082	J	0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:41	1
Lithium	0.0091		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:41	1
Thallium	0.00062	J	0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.39				SU			01/11/22 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		1.0	0.71	mg/L			01/18/22 18:26	1
Fluoride	0.028	J	0.10	0.026	mg/L			01/18/22 18:26	1
Sulfate	21		1.0	0.76	mg/L			01/18/22 18:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:45	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:45	1
Barium	0.38		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:45	1
Beryllium	0.00020	J	0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:45	1
Boron	0.87		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:45	1
Calcium	16		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:45	1
Cobalt	0.0048		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:45	1
Lithium	0.0043	J	0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:45	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.26				SU			01/11/22 16:40	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/18/22 18:39	1
Fluoride	<0.026		0.10	0.026	mg/L			01/18/22 18:39	1
Sulfate	<0.76		1.0	0.76	mg/L			01/18/22 18:39	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:49	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:49	1
Barium	0.0024	J	0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:49	1
Boron	0.063	J	0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:49	1
Calcium	<0.13		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:49	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:49	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10	H	10	10	mg/L			01/19/22 09:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: FB-1

Lab Sample ID: 180-132517-8

Date Collected: 01/11/22 14:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/18/22 18:53	1
Fluoride	<0.026		0.10	0.026	mg/L			01/18/22 18:53	1
Sulfate	<0.76		1.0	0.76	mg/L			01/18/22 18:53	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:52	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:52	1
Barium	<0.0016		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:52	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:52	1
Boron	<0.039		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:52	1
Calcium	<0.13		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:52	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:52	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:52	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:52	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:52	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10	H	10	10	mg/L			01/19/22 09:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Client Sample ID: Dup-1

Lab Sample ID: 180-132517-9

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52		1.0	0.71	mg/L			01/18/22 19:07	1
Fluoride	0.87		0.10	0.026	mg/L			01/18/22 19:07	1
Sulfate	140		1.0	0.76	mg/L			01/18/22 19:07	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:56	1
Arsenic	0.0018		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:56	1
Barium	0.030		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:56	1
Beryllium	0.014		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:56	1
Boron	1.8		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:56	1
Cadmium	0.00043	J	0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:56	1
Calcium	53		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:56	1
Cobalt	0.11		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:56	1
Lead	0.00079	J	0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:56	1
Lithium	0.0091		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:56	1
Thallium	0.00060	J	0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340	H	10	10	mg/L			01/19/22 09:15	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-385392/7
Matrix: Water
Analysis Batch: 385392

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/18/22 13:31	1
Fluoride	<0.026		0.10	0.026	mg/L			01/18/22 13:31	1
Sulfate	<0.76		1.0	0.76	mg/L			01/18/22 13:31	1

Lab Sample ID: LCS 180-385392/5
Matrix: Water
Analysis Batch: 385392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.8		mg/L		94	90 - 110
Fluoride	2.50	2.49		mg/L		100	90 - 110
Sulfate	50.0	46.7		mg/L		93	90 - 110

Lab Sample ID: 180-132517-3 MS
Matrix: Water
Analysis Batch: 385392

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.1		50.0	55.0		mg/L		100	90 - 110
Fluoride	0.45		2.50	3.02		mg/L		103	90 - 110
Sulfate	140	F1	50.0	180	F1	mg/L		85	90 - 110

Lab Sample ID: 180-132517-3 MSD
Matrix: Water
Analysis Batch: 385392

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.1		50.0	54.6		mg/L		99	90 - 110	1	20
Fluoride	0.45		2.50	3.01		mg/L		102	90 - 110	1	20
Sulfate	140	F1	50.0	178	F1	mg/L		83	90 - 110	1	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-385737/1-A
Matrix: Water
Analysis Batch: 385876

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 385737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:01	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:01	1
Barium	<0.0016		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:01	1
Boron	<0.039		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:01	1
Calcium	<0.13		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:01	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:01	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:01	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-385737/1-A
Matrix: Water
Analysis Batch: 385876

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 385737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:01	1

Lab Sample ID: LCS 180-385737/2-A
Matrix: Water
Analysis Batch: 385876

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 385737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.241		mg/L		97	80 - 120
Arsenic	1.00	0.983		mg/L		98	80 - 120
Barium	1.00	0.988		mg/L		99	80 - 120
Beryllium	0.500	0.506		mg/L		101	80 - 120
Boron	1.25	1.12		mg/L		89	80 - 120
Cadmium	0.500	0.502		mg/L		100	80 - 120
Calcium	25.0	25.1		mg/L		100	80 - 120
Chromium	0.500	0.501		mg/L		100	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.496		mg/L		99	80 - 120
Lithium	0.500	0.472		mg/L		94	80 - 120
Molybdenum	0.500	0.501		mg/L		100	80 - 120
Selenium	1.00	0.978		mg/L		98	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-385582/1-A
Matrix: Water
Analysis Batch: 385703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:44	1

Lab Sample ID: LCS 180-385582/2-A
Matrix: Water
Analysis Batch: 385703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-385537/2
Matrix: Water
Analysis Batch: 385537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			01/19/22 09:15	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-385537/1
Matrix: Water
Analysis Batch: 385537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	150	160		mg/L	-	107	85 - 115

Lab Sample ID: 180-132517-9 DU
Matrix: Water
Analysis Batch: 385537

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	340	H	332		mg/L	-	0.9	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

HPLC/IC

Analysis Batch: 385392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-132517-1	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-132517-2	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-132517-2	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-132517-3	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-132517-4	WGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-132517-5	WGWC-24	Total/NA	Water	EPA 300.0 R2.1	
180-132517-6	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-132517-7	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-132517-8	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-132517-9	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-385392/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-385392/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-132517-3 MS	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-132517-3 MSD	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 385582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	7470A	
180-132517-2	WGWC-21	Total/NA	Water	7470A	
180-132517-3	WGWC-22	Total/NA	Water	7470A	
180-132517-4	WGWC-23	Total/NA	Water	7470A	
180-132517-5	WGWC-24	Total/NA	Water	7470A	
180-132517-6	WGWC-25	Total/NA	Water	7470A	
180-132517-7	EB-1	Total/NA	Water	7470A	
180-132517-8	FB-1	Total/NA	Water	7470A	
180-132517-9	Dup-1	Total/NA	Water	7470A	
MB 180-385582/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-385582/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 385703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	EPA 7470A	385582
180-132517-2	WGWC-21	Total/NA	Water	EPA 7470A	385582
180-132517-3	WGWC-22	Total/NA	Water	EPA 7470A	385582
180-132517-4	WGWC-23	Total/NA	Water	EPA 7470A	385582
180-132517-5	WGWC-24	Total/NA	Water	EPA 7470A	385582
180-132517-6	WGWC-25	Total/NA	Water	EPA 7470A	385582
180-132517-7	EB-1	Total/NA	Water	EPA 7470A	385582
180-132517-8	FB-1	Total/NA	Water	EPA 7470A	385582
180-132517-9	Dup-1	Total/NA	Water	EPA 7470A	385582
MB 180-385582/1-A	Method Blank	Total/NA	Water	EPA 7470A	385582
LCS 180-385582/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	385582

Prep Batch: 385737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total Recoverable	Water	3005A	
180-132517-2	WGWC-21	Total Recoverable	Water	3005A	
180-132517-3	WGWC-22	Total Recoverable	Water	3005A	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-1

Metals (Continued)

Prep Batch: 385737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-4	WGWC-23	Total Recoverable	Water	3005A	
180-132517-5	WGWC-24	Total Recoverable	Water	3005A	
180-132517-6	WGWC-25	Total Recoverable	Water	3005A	
180-132517-7	EB-1	Total Recoverable	Water	3005A	
180-132517-8	FB-1	Total Recoverable	Water	3005A	
180-132517-9	Dup-1	Total Recoverable	Water	3005A	
MB 180-385737/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-385737/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 385876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total Recoverable	Water	EPA 6020B	385737
180-132517-2	WGWC-21	Total Recoverable	Water	EPA 6020B	385737
180-132517-3	WGWC-22	Total Recoverable	Water	EPA 6020B	385737
180-132517-4	WGWC-23	Total Recoverable	Water	EPA 6020B	385737
180-132517-5	WGWC-24	Total Recoverable	Water	EPA 6020B	385737
180-132517-6	WGWC-25	Total Recoverable	Water	EPA 6020B	385737
180-132517-7	EB-1	Total Recoverable	Water	EPA 6020B	385737
180-132517-8	FB-1	Total Recoverable	Water	EPA 6020B	385737
180-132517-9	Dup-1	Total Recoverable	Water	EPA 6020B	385737
MB 180-385737/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	385737
LCS 180-385737/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	385737

General Chemistry

Analysis Batch: 385537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	SM 2540C	
180-132517-2	WGWC-21	Total/NA	Water	SM 2540C	
180-132517-3	WGWC-22	Total/NA	Water	SM 2540C	
180-132517-4	WGWC-23	Total/NA	Water	SM 2540C	
180-132517-5	WGWC-24	Total/NA	Water	SM 2540C	
180-132517-6	WGWC-25	Total/NA	Water	SM 2540C	
180-132517-7	EB-1	Total/NA	Water	SM 2540C	
180-132517-8	FB-1	Total/NA	Water	SM 2540C	
180-132517-9	Dup-1	Total/NA	Water	SM 2540C	
MB 180-385537/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-385537/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-132517-9 DU	Dup-1	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 385985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	Field Sampling	
180-132517-2	WGWC-21	Total/NA	Water	Field Sampling	
180-132517-3	WGWC-22	Total/NA	Water	Field Sampling	
180-132517-4	WGWC-23	Total/NA	Water	Field Sampling	
180-132517-5	WGWC-24	Total/NA	Water	Field Sampling	
180-132517-6	WGWC-25	Total/NA	Water	Field Sampling	

Eurofins Pittsburgh

1000 Park
Pittsburgh, PA 15238
904(412) 963-7058 Fax (412) 963-2468

Client Information
 Client Contact: H. A. J. Benstead
 Phone: 770-594-5998
 E-Mail: shelli.brown@eurofinset.com
 Lab PIR: Brown, Shelli
 Center Tracking No(s):
 COC No:
 Page:
 Job #:

Analysis Requested

Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)

App III Metals, B, Ca

Cl, F, SO4 & TDS (EPA 300 & SM 2540C)

App IV Metals (EPA 60207A)

Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti

Radium 226 & 228 (SW-646 9316/9320)

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)



Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	App III Metals, B, Ca	Cl, F, SO4 & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207A)	Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-646 9316/9320)	Analysis Requested	Preservation Codes
WGWC-20	1-12-22	1245	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WGWC-21	1-11-22	1257	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WGWC-22	1-11-22	1553	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WGWC-23	1-11-22	1450	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WGWC-24	1-11-22	1335	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
WGWC-25	1-11-22	1640	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
EB-1	1-11-22	1430	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
FB-1	1-11-22	1440	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Dup-1	1-11-22	1335	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
			G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV Other (specify):
 Empty Kit Relinquished by:
 Relinquished by: [Signature] Date/Time: 1-13-22/1122 Company: ACC
 Relinquished by: [Signature] Date/Time: 1/13/22 16:24 Company: [Signature]
 Relinquished by: [Signature] Date/Time: 1/11/22 0800 Company: [Signature]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements

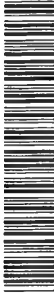
Method of Shipment:
 Received by: [Signature] Date/Time: 1/13/22 11:21 Company: [Signature]
 Received by: [Signature] Date/Time: _____ Company: _____
 Received by: [Signature] Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: 1.0 - 1.7 - 1.0 - 1.6 - 0.8 - 1.4

Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)		Lab PM	Brown, Shali	Carrier Tracking No(s)	COC No 680-680886-1
Client Contact		E-Mail	Shali.Brown@Eurofins.com	State of Origin	Georgia
Shipping/Receiving		Page 1 of 2			
Company		Job # 680-210064-1			
TestAmerica Laboratories, Inc		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)			
Address 13715 Rider Trail North,		Accreditations Required (See note)			
City Earth City		Analysis Requested			
State/Zip MO, 63045		Total Number of Containers			
Phone 314-298-8566(Tel) 314-298-8757(Fax)		Field Filtered Sample (Yes or No)			
Email		Perform M/MSD (Yes or No)			
Project Name CCR - Plant Wansley Ash Pond		Special Instructions/Note:			
Site Wansley CCR		Other:			
Sample Identification - Client ID (Lab ID)					
WGWC-20 (680-210064-1)	1/11/22	12:45 Eastern	Water	X	2
WGWC-21 (680-210064-2)	1/11/22	12:57 Eastern	Water	X	2
WGWC-22 (680-210064-3)	1/11/22	15:53 Eastern	Water	X	2
WGWC-23 (680-210064-4)	1/11/22	14:50 Eastern	Water	X	2
WGWC-24 (680-210064-5)	1/11/22	13:35 Eastern	Water	X	2
WGWC-25 (680-210064-6)	1/11/22	16:40 Eastern	Water	X	2
EB-1 (680-210064-7)	1/11/22	14:30 Eastern	Water	X	2
FB-1 (680-210064-8)	1/11/22	14:40 Eastern	Water	X	2
Dup-1 (680-210064-9)	1/11/22	13:35 Eastern	Water	X	2
<p>Note: Since laboratory accreditations are subject to change, Eurofins Southeast places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Southeast laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Southeast attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Southeast.</p>					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify) _____					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by _____ Date: _____					
Relinquished by _____ Date: 1/11/22 Company: FEDEX					
Relinquished by _____ Date: 1/11/22 Company: FEDEX					
Relinquished by _____ Date: 1/11/22 Company: FEDEX					
Custody Seals Intact: _____ Custody Seal No.: _____					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Special Instructions/QC Requirements					
Time: _____ Method of Shipment: _____					
Received by: _____ Date/Time: _____ Company: _____					
Received by: <i>Suna Woodhington</i> Date/Time: 1-11-22 09:20 Company: EMSR					
Received by: _____ Date/Time: _____ Company: _____					
Cooler Temperature(s) °C and Other Remarks					



Client Information (Sub Contract Lab)		Carrier Tracking No(s)	COC No
Client Contact: Brown, Shali			680-680886 2
Shipping/Receiving: Shali.Brown@Eurofins.com		State of Origin	Page
		Georgia	Page 2 of 2
Company: TestAmerica Laboratories, Inc.			
Address: 13715 Rider Trail North.			
City	Earth City	Job #	
State, Zip	MO, 63045	680-210064-1	
Phone	314-298-8566(Tel) 314-298-8757(Fax)	Preservation Codes:	
Email		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Z - other (specify) Other:	
Project Name:	CCR - Plant Wansley Ash Pond	Analysis Requested	
Site:	Wansley CCR	Total Number of Containers	
Due Date Requested:	1/27/2022	X	
TAT Requested (days):		2	
PO #		Perform MS/MSD (Yes or No)	
WO #		X	
Project #	18019922	Field Filtered Sample (Yes or No)	
SSOW#		X	
Sample Date	1/11/22	Sample Type	
Sample Time	Eastern	(C=Comp, G=grab) (B=118, 119, 120)	
Sample Identification - Client ID (Lab ID)	Extra Rad (680-210064-10)	Matrix	
		(W=water, S=solid, O=waste/oil)	
		Preservation Code:	
		Water	
Special Instructions/Note:			
Note: Since laboratory accreditations are subject to change, Eurofins Southeast places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Southeast laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Southeast attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Southeast.			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)			
Primary Deliverable Rank: 2			
Empty Kit Relinquished by		Time:	
Relinquished by: [Signature]		Date:	
Relinquished by: [Signature]		Company:	
Relinquished by: [Signature]		Date/Time:	
Custody Seals Intact:		Date/Time:	
Custody Seal No.:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Special Instructions/QC Requirements:			
Received by: [Signature]		Date/Time:	
Received by: Anna Worthington		1-14-22 0920	
Received by:		Date/Time:	
Company:		Company:	
Company:		Company: EMSR	

Chain of Custody Record



680-210064 Chain of Custody

Client Information (Sub Contract Lab)	Sampler: Brown, Shali	Lab PM: Brown, Shali
Client Contact Shipping/Receiving	Phone:	E-Mail: Shali.Brown@Eurofinset.com

Company: Eurofins Environment Testing Northeast,	Accreditations Required (See note):	Job #: 680-210064-1
---	-------------------------------------	------------------------

Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh State, Zip: PA, 15238 Phone: 412-963-7068(Tel) 412-963-2468(Fax) Email:	Due Date Requested: 1/27/2022 TAT Requested (days):	Analysis Requested	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:
PO #: WO #:	Project #: 18019922 SSOW#:		

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab) BT=Tissue, A=Air	Matrix (W=water, S=solid, O=waste/oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/2005A Custom 14 (App III + App IV)	2540C_Calcd/ Solids, Total Dissolved (TDS)	7470A/7470A_Prep Mercury (CVAA)	300_ORGFM_280/ Chloride Fluoride Sulfate	Field Sampling/ Field pH (client supplied)	Total Number of Containers	Special Instructions/Note:
WGWC-20 (680-210064-1)	1/12/22	12:45 Eastern		Water			X	X	X	X	X	2	
WGWC-21 (680-210064-2)	1/11/22	12:57 Eastern		Water			X	X	X	X	X	2	
WGWC-22 (680-210064-3)	1/11/22	15:53 Eastern		Water			X	X	X	X	X	2	
WGWC-23 (680-210064-4)	1/11/22	14:50 Eastern		Water			X	X	X	X	X	2	
WGWC-24 (680-210064-5)	1/11/22	13:35 Eastern		Water			X	X	X	X	X	2	
WGWC-25 (680-210064-6)	1/11/22	16:40 Eastern		Water			X	X	X	X	X	2	
EB-1 (680-210064-7)	1/11/22	14:30 Eastern		Water			X	X	X	X	X	2	
FB-1 (680-210064-8)	1/11/22	14:40 Eastern		Water			X	X	X	X	X	2	
Dup-1 (680-210064-9)	1/11/22	13:35 Eastern		Water			X	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Southeast places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Southeast laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Southeast attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Southeast.

Possible Hazard Identification Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
--	--

Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
--	-----------------------------	---------------------------------------

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 1/17 10:00	Company:	Received by: <i>[Signature]</i> Date/Time: 1/18/22
Relinquished by:	Date/Time:	Company:	Received by: <i>[Signature]</i> Date/Time: 1/15
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-132517-1

Login Number: 132517

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-132517-2

Client Project/Site: Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
2/21/2022 5:40:15 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	20
QC Association Summary	22
Chain of Custody	23
Receipt Checklists	24

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Job ID: 180-132517-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-132517-2

Receipt

The samples were received on 1/14/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.2°C, 1.5°C and 1.6°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium 226 batch 548419 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-20 (180-132517-1), WGWC-21 (180-132517-2), WGWC-22 (180-132517-3), WGWC-23 (180-132517-4), WGWC-24 (180-132517-5), WGWC-25 (180-132517-6), EB-1 (180-132517-7), FB-1 (180-132517-8), Dup-1 (180-132517-9), (LCS 160-548419/1-A), (MB 160-548419/12-A) and (180-132517-G-6-A DU)

Method 9320_Ra228: Radium 228 batch 548431 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-20 (180-132517-1), WGWC-21 (180-132517-2), WGWC-22 (180-132517-3), WGWC-23 (180-132517-4), WGWC-24 (180-132517-5), WGWC-25 (180-132517-6), EB-1 (180-132517-7), FB-1 (180-132517-8), Dup-1 (180-132517-9), (LCS 160-548431/1-A), (MB 160-548431/12-A) and (180-132517-G-6-B DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-132517-1	WGWC-20	Water	01/12/22 12:45	01/14/22 08:00
180-132517-2	WGWC-21	Water	01/11/22 12:57	01/14/22 08:00
180-132517-3	WGWC-22	Water	01/11/22 15:53	01/14/22 08:00
180-132517-4	WGWC-23	Water	01/11/22 14:50	01/14/22 08:00
180-132517-5	WGWC-24	Water	01/11/22 13:35	01/14/22 08:00
180-132517-6	WGWC-25	Water	01/11/22 16:40	01/14/22 08:00
180-132517-7	EB-1	Water	01/11/22 14:30	01/14/22 08:00
180-132517-8	FB-1	Water	01/11/22 14:40	01/14/22 08:00
180-132517-9	Dup-1	Water	01/11/22 13:35	01/14/22 08:00

- 1
- 2
- 3
- 4
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- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.89 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:50	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.89 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.37 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:51	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.37 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.55 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.55 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.58 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.58 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.06 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.06 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:23	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.38 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.38 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.94 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.94 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: EB-1

Date Collected: 01/11/22 14:30

Date Received: 01/14/22 08:00

Lab Sample ID: 180-132517-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL

Client Sample ID: FB-1

Date Collected: 01/11/22 14:40

Date Received: 01/14/22 08:00

Lab Sample ID: 180-132517-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.11 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:53	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Date Collected: 01/11/22 13:35

Date Received: 01/14/22 08:00

Lab Sample ID: 180-132517-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.68 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:53	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.68 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

HRT = Hannah Tomasovic

Batch Type: Analysis

CAH = Chris Hough

FLC = Fernando Cruz

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.310		0.128	0.131	1.00	0.153	pCi/L	01/27/22 12:59	02/21/22 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					01/27/22 12:59	02/21/22 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.778		0.325	0.333	1.00	0.463	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	78.1		40 - 110					01/27/22 13:50	02/15/22 13:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.09		0.349	0.358	2.00	0.463	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.345		0.145	0.148	1.00	0.166	pCi/L	01/27/22 12:59	02/21/22 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					01/27/22 12:59	02/21/22 08:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.573		0.308	0.312	1.00	0.447	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	85.2		40 - 110					01/27/22 13:50	02/15/22 13:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.919		0.340	0.345	2.00	0.447	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.19		0.366	0.465	1.00	0.141	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.72		0.459	0.572	1.00	0.331	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	84.9		40 - 110					01/27/22 13:50	02/15/22 13:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	6.91		0.587	0.737	2.00	0.331	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.0980	0.0985	1.00	0.149	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.104	U	0.299	0.299	1.00	0.518	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	81.5		40 - 110					01/27/22 13:50	02/15/22 13:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.218	U	0.315	0.315	2.00	0.518	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178		0.115	0.117	1.00	0.156	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.2		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.571		0.340	0.344	1.00	0.508	pCi/L	01/27/22 13:50	02/15/22 13:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.2		40 - 110					01/27/22 13:50	02/15/22 13:23	1
Y Carrier	84.5		40 - 110					01/27/22 13:50	02/15/22 13:23	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.749		0.359	0.363	2.00	0.508	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.385		0.125	0.130	1.00	0.116	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.201	0.202	1.00	0.322	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	86.4		40 - 110					01/27/22 13:50	02/15/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.606		0.237	0.240	2.00	0.322	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0198	U	0.0773	0.0773	1.00	0.146	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.199	U	0.251	0.251	1.00	0.416	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	78.9		40 - 110					01/27/22 13:50	02/15/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.219	U	0.263	0.263	2.00	0.416	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: FB-1

Lab Sample ID: 180-132517-8

Date Collected: 01/11/22 14:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00428	U	0.0438	0.0438	1.00	0.0950	pCi/L	01/27/22 12:59	02/21/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					01/27/22 12:59	02/21/22 08:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.113	U	0.242	0.243	1.00	0.417	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	78.1		40 - 110					01/27/22 13:50	02/15/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.118	U	0.246	0.247	2.00	0.417	pCi/L		02/21/22 14:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Client Sample ID: Dup-1

Lab Sample ID: 180-132517-9

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.0830	0.0836	1.00	0.117	pCi/L	01/27/22 12:59	02/21/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					01/27/22 12:59	02/21/22 08:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.817		0.334	0.342	1.00	0.476	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	85.6		40 - 110					01/27/22 13:50	02/15/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.928		0.344	0.352	2.00	0.476	pCi/L		02/21/22 14:17	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-548419/12-A
Matrix: Water
Analysis Batch: 551612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 548419

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04218	U	0.0602	0.0603	1.00	0.103	pCi/L	01/27/22 12:59	02/21/22 08:54	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	96.7		40 - 110		01/27/22 12:59	02/21/22 08:54	1			

Lab Sample ID: LCS 160-548419/1-A
Matrix: Water
Analysis Batch: 551612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 548419

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.554		1.03	1.00	0.127	pCi/L	84	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.7		40 - 110						

Lab Sample ID: 180-132517-6 DU
Matrix: Water
Analysis Batch: 551612

Client Sample ID: WGWC-25
Prep Type: Total/NA
Prep Batch: 548419

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.385		0.2209		0.104	1.00	0.117	pCi/L	0.70	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	96.2		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-548431/12-A
Matrix: Water
Analysis Batch: 550679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 548431

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2703	U	0.253	0.255	1.00	0.409	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	96.7		40 - 110		01/27/22 13:50	02/15/22 13:24	1			
Y Carrier	81.5		40 - 110		01/27/22 13:50	02/15/22 13:24	1			

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-548431/1-A
Matrix: Water
Analysis Batch: 550629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 548431

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.87	9.112		1.09	1.00	0.435	pCi/L	103	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	96.7		40 - 110						
Y Carrier	83.4		40 - 110						

Lab Sample ID: 180-132517-6 DU
Matrix: Water
Analysis Batch: 550679

Client Sample ID: WGWC-25
Prep Type: Total/NA
Prep Batch: 548431

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.221	U	0.5097		0.271	1.00	0.394	pCi/L	0.61	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.2		40 - 110							
Y Carrier	83.4		40 - 110							

QC Association Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-132517-2

Rad

Prep Batch: 548419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	PrecSep-21	
180-132517-2	WGWC-21	Total/NA	Water	PrecSep-21	
180-132517-3	WGWC-22	Total/NA	Water	PrecSep-21	
180-132517-4	WGWC-23	Total/NA	Water	PrecSep-21	
180-132517-5	WGWC-24	Total/NA	Water	PrecSep-21	
180-132517-6	WGWC-25	Total/NA	Water	PrecSep-21	
180-132517-7	EB-1	Total/NA	Water	PrecSep-21	
180-132517-8	FB-1	Total/NA	Water	PrecSep-21	
180-132517-9	Dup-1	Total/NA	Water	PrecSep-21	
MB 160-548419/12-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-548419/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-132517-6 DU	WGWC-25	Total/NA	Water	PrecSep-21	

Prep Batch: 548431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	PrecSep_0	
180-132517-2	WGWC-21	Total/NA	Water	PrecSep_0	
180-132517-3	WGWC-22	Total/NA	Water	PrecSep_0	
180-132517-4	WGWC-23	Total/NA	Water	PrecSep_0	
180-132517-5	WGWC-24	Total/NA	Water	PrecSep_0	
180-132517-6	WGWC-25	Total/NA	Water	PrecSep_0	
180-132517-7	EB-1	Total/NA	Water	PrecSep_0	
180-132517-8	FB-1	Total/NA	Water	PrecSep_0	
180-132517-9	Dup-1	Total/NA	Water	PrecSep_0	
MB 160-548431/12-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-548431/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-132517-6 DU	WGWC-25	Total/NA	Water	PrecSep_0	

Client Information
 Client Contact: H. Awk, J. Benstead
 Phone: 770-594-5998
 E-Mail: shelli.brown@euofinset.com
 Lab P.M.: Brown, Shelli
 Center Tracking No(s):
 COC No:
 Page:
 Job #:

Company
 GA Power
 Address: 241 Ralph McGill Blvd SE
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7116(Tel)
 Email:
 SCS Contacts
 Project Name: CCR - Plant Wansley Ash Pond
 Site:
 Due Date Requested:
 TAT Requested (days):
 PO #:
 WO #:
 Project #:
 18019922
 SSOW#:

Analysis Requested
 Perform MS/MSD (Yes or No)
 Field Filtered Sample (Yes or No)
 App III Metals, B, Ca
 Cl, F, SO4 & TDS (EPA 300 & SM 2540C)
 App IV Metals (EPA 60207A)
 Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti
 Radium 226 & 228 (SW-646 9316/9320)
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 Q - Na2SC3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=issue, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	App III Metals, B, Ca	Cl, F, SO4 & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207A)	Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-646 9316/9320)	Analysis Requested	Preservation Codes
WGWC-20	1-12-22	1245	G	Water		N	✓	✓	✓	✓	✓		4 pH= 5.19
WGWC-21	1-11-22	1257	G	Water		N	✓	✓	✓	✓	✓		4 pH= 6.68
WGWC-22	1-11-22	1553	G	Water		N	✓	✓	✓	✓	✓		4 pH= 5.40
WGWC-23	1-11-22	1450	G	Water		N	✓	✓	✓	✓	✓		4 pH= 5.61
WGWC-24	1-11-22	1335	G	Water		N	✓	✓	✓	✓	✓		4 pH= 4.39
WGWC-25	1-11-22	1640	G	Water		N	✓	✓	✓	✓	✓		6 pH= 5.26
EB-1	1-11-22	1430	G	Water		N	✓	✓	✓	✓	✓		4 pH=
FB-1	1-11-22	1440	G	Water		N	✓	✓	✓	✓	✓		4 pH=
Dup-1	1-11-22	1335	G	Water		N	✓	✓	✓	✓	✓		4 pH=
			G	Water		N	✓	✓	✓	✓	✓		4 pH=
			G	Water		N	✓	✓	✓	✓	✓		4 pH=

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV Other (specify)
 Special Instructions/QC Requirements
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Method of Shipment:

Empty Kit Relinquished by
 Relinquished by: [Signature] Date/Time: 1-13-22 / 1122 Company: ACC
 Relinquished by: [Signature] Date/Time: 1/13/22 16:24 Company: [Signature]
 Relinquished by: [Signature] Date/Time: 1/11/22 0800 Company: [Signature]

Cooler Temperature(s) °C and Other Remarks:
10.5-17.1-0-6.0-8-6.4
 Seal No. 12
 Date: 2/21/2022

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-132517-2

Login Number: 132517

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-132517-2

Login Number: 132517

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 01/24/22 02:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-134761-1
Client Project/Site: Wansley Ash Pond
Revision: 1

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
6/23/2022 7:29:12 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	20
QC Sample Results	41
QC Association Summary	55
Chain of Custody	63
Receipt Checklists	79

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Job ID: 180-134761-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-134761-1

Comments

062322 Revised report to make changes listed below. This report replaces the report previously issued on 032122.
Method 6020B: B flag removed from sample WGWC-20 (180-134765-10)
Method 6020B: J flag applied to sample FB-3 (180-134765-11)

Receipt

The samples were received on 3/5/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the coolers at receipt time were 2.1° C, 2.9° C, 2.9° C, 4.2° C, 4.4° C and 4.4° C.

GC Semi VOA

Method 300.0: The matrix spike duplicate (MSD) recoveries for analytical batch 180-390804 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-390909 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 180-390909 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of sulfate in the MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-391414 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6020B: The post digestion spike % recovery for calcium and manganese associated with batch 180-391755 was outside of control limits. The associated sample is: WGWC-12 (180-134761-1).

Method 6020B: The post digestion spike % recovery for boron associated with batch 180-391946 was outside of control limits. The associated sample is: WGWC-12 (180-134761-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	05-19-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	05-19-22
Florida	NELAP	E871008	05-05-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	05-19-22
Kansas	NELAP	E-10350	03-30-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	05-29-22
Louisiana	NELAP	04041	05-19-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	05-19-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-22
New Jersey	NELAP	PA005	05-19-22
New York	NELAP	11182	03-31-22
North Carolina (WW/SW)	State	434	05-19-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	05-19-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	05-19-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-19-22
Virginia	NELAP	10043	05-19-22
West Virginia DEP	State	142	05-19-22
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134761-1	WGWC-12	Water	03/04/22 14:30	03/05/22 09:00
180-134763-2	WGWC-19	Water	03/03/22 14:05	03/05/22 09:00
180-134763-5	WGWC-10	Water	03/03/22 11:52	03/05/22 09:00
180-134763-6	WGWC-24	Water	03/03/22 14:06	03/05/22 09:00
180-134763-7	WGWC-21	Water	03/03/22 16:27	03/05/22 09:00
180-134763-9	WGWC-23	Water	03/04/22 09:47	03/05/22 09:00
180-134763-10	WGWC-17	Water	03/04/22 11:14	03/05/22 09:00
180-134763-11	Dup-3	Water	03/04/22 00:01	03/05/22 09:00
180-134765-1	DUP-2	Water	03/03/22 00:01	03/05/22 09:00
180-134765-2	WGWC-15	Water	03/03/22 13:40	03/05/22 09:00
180-134765-3	WGWC-16	Water	03/03/22 14:52	03/05/22 09:00
180-134765-4	WGWA-7	Water	03/03/22 11:52	03/05/22 09:00
180-134765-5	WGWC-13	Water	03/03/22 13:13	03/05/22 09:00
180-134765-6	WGWC-14A	Water	03/03/22 14:07	03/05/22 09:00
180-134765-7	WGWC-11	Water	03/03/22 15:30	03/05/22 09:00
180-134765-8	FB-2	Water	03/03/22 15:15	03/05/22 09:00
180-134765-9	WGWC-25	Water	03/04/22 10:50	03/05/22 09:00
180-134765-10	WGWC-20	Water	03/04/22 12:11	03/05/22 09:00
180-134765-11	FB-3	Water	03/04/22 11:50	03/05/22 09:00
180-134766-1	EB-3	Water	03/04/22 13:15	03/05/22 09:00
180-134766-2	WGWC-22	Water	03/04/22 13:50	03/05/22 09:00



Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			390909	03/09/22 20:30	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:11	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 12:36	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391840	03/16/22 11:31	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:35	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 15:26	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391040	03/09/22 18:45	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:46	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391279	03/04/22 14:30	FDS	TAL PIT

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391414	03/14/22 02:23	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:23	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 12:56	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391840	03/16/22 11:31	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:36	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390865	03/08/22 15:59	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 21:35	CMT	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			391279	03/03/22 14:05	FDS	TAL PIT

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			390804	03/08/22 16:40	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:26	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 12:59	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:34	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390865	03/08/22 16:10	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391320	03/09/22 17:58	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391279	03/03/22 11:52	FDS	TAL PIT

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			390804	03/08/22 16:55	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:29	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 13:01	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:35	RJR	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:21	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:02	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391279	03/03/22 14:06	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 17:40	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:36	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:46	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:31	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:39	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391279	03/03/22 16:27	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 18:03	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:39	RSK	TAL PIT
Instrument ID: NEMO										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:47	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390867	03/08/22 15:41	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 19:24	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391279	03/04/22 09:47	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 18:14	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:41	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:48	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390867	03/08/22 15:55	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 20:06	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391279	03/04/22 11:14	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-3

Lab Sample ID: 180-134763-11

Date Collected: 03/04/22 00:01

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 18:28	JRB	TAL PIT
Instrument ID: CHIC2100A										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: Dup-3
Date Collected: 03/04/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:44	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:49	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390867	03/08/22 16:10	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 20:19	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-2
Date Collected: 03/03/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 15:09	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:47	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:46	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:42	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:46	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: WGWC-15
Date Collected: 03/03/22 13:40
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 15:54	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:49	RSK	TAL PIT
Instrument ID: NEMO										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-15

Date Collected: 03/03/22 13:40

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:49	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:53	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:54	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 13:40	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Date Collected: 03/03/22 14:52

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 16:09	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:52	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:50	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 17:03	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 19:01	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 14:52	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Date Collected: 03/03/22 11:52

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 16:25	JRB	TAL PIT
Instrument ID: CHIC2100A										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:54	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:51	RJR	TAL PIT
	Instrument ID: HGY									
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 17:14	HEK	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 19:08	CMT	TAL PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 11:52	FDS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			391628	03/15/22 19:07	JRB	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:57	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:52	RJR	TAL PIT
	Instrument ID: HGY									
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 17:25	HEK	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 21:21	CMT	TAL PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 13:13	FDS	TAL PIT
	Instrument ID: NOEQUIP									

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 22:39	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:05	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:53	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390865	03/08/22 17:35	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 20:25	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/03/22 14:07	FDS	TAL PIT

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 22:54	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:07	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:57	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 14:28	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 20:18	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/03/22 15:30	FDS	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 23:09	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:10	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:58	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 15:11	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 19:40	CMT	TAL PIT

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			392292	03/19/22 22:45	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/16/22 00:25	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:12	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:59	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 16:53	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:53	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/04/22 10:50	FDS	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 23:25	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		10			391628	03/15/22 23:40	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:15	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:01	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:08	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:19	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/04/22 12:11	FDS	TAL PIT

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			392292	03/19/22 23:02	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/16/22 00:40	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:18	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:02	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:23	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:26	CMT	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			390909	03/09/22 17:46	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391756	03/15/22 14:34	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:03	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:37	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391040	03/09/22 18:45	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:32	CMT	TAL PIT

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			390909	03/09/22 17:05	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391756	03/15/22 14:52	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:04	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:52	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391040	03/09/22 18:45	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:38	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391685	03/04/22 13:50	FDS	TAL PIT

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

HEK = Hope Kiesling

KFS = Kelly Shannon

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

CMT = Cassandra Tlumac

FDS = Sampler Field

HEK = Hope Kiesling

JCR = Jessica Rodgers

JRB = James Burzio

RJR = Ron Rosenbaum

RSK = Robert Kurtz

- 1
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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			03/09/22 20:30	1
Fluoride	0.068	J	0.10	0.026	mg/L			03/09/22 20:30	1
Sulfate	14		1.0	0.76	mg/L			03/09/22 20:30	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:11	1
Arsenic	0.00037	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:11	1
Barium	0.016		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:11	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:11	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:11	1
Calcium	12		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:11	1
Cobalt	0.00056	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:11	1
Lead	0.00033	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:11	1
Lithium	0.0061		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:11	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:11	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:11	1
Sodium	5.8		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:11	1
Potassium	2.0		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:11	1
Iron	1.5	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:11	1
Magnesium	2.9		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:11	1
Manganese	0.013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:11	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 11:31	03/17/22 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:26	1
Total Dissolved Solids	89		10	10	mg/L			03/09/22 18:45	1
Total Alkalinity as CaCO3 to pH 4.5	43		5.0	5.0	mg/L			03/12/22 02:46	1
Bicarbonate Alkalinity as CaCO3	43		5.0	5.0	mg/L			03/12/22 02:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.79				SU			03/04/22 14:30	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2	F1	1.0	0.71	mg/L			03/14/22 02:23	1
Fluoride	0.40	F1	0.10	0.026	mg/L			03/14/22 02:23	1
Sulfate	4.8	F1	1.0	0.76	mg/L			03/14/22 02:23	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:23	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:23	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:23	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:23	1
Calcium	12		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:23	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:23	1
Lead	0.00030	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:23	1
Lithium	0.057		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:23	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:23	1
Sodium	7.5		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:23	1
Potassium	1.3		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:23	1
Iron	0.078	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:23	1
Magnesium	9.5		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:23	1
Manganese	0.016		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 11:31	03/17/22 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.5		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:59	1
Total Dissolved Solids	98		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	90		5.0	5.0	mg/L			03/08/22 21:35	1
Bicarbonate Alkalinity as CaCO3	90		5.0	5.0	mg/L			03/08/22 21:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.69				SU			03/03/22 14:05	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			03/08/22 16:40	1
Fluoride	0.067	J	0.10	0.026	mg/L			03/08/22 16:40	1
Sulfate	2.0		1.0	0.76	mg/L			03/08/22 16:40	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:26	1
Barium	0.033		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:26	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:26	1
Calcium	7.1		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:26	1
Chromium	0.0023		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:26	1
Cobalt	0.00045	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:26	1
Lead	0.00025	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:26	1
Lithium	0.0038	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:26	1
Sodium	3.7		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:26	1
Potassium	1.7		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:26	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:26	1
Magnesium	1.8		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:26	1
Manganese	0.033		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	8.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:10	1
Total Dissolved Solids	45		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	27		5.0	5.0	mg/L			03/09/22 17:58	1
Bicarbonate Alkalinity as CaCO3	27		5.0	5.0	mg/L			03/09/22 17:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.36				SU			03/03/22 11:52	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		1.0	0.71	mg/L			03/08/22 16:55	1
Fluoride	0.71		0.10	0.026	mg/L			03/08/22 16:55	1
Sulfate	130		1.0	0.76	mg/L			03/08/22 16:55	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:29	1
Arsenic	0.0029		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:29	1
Barium	0.028		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:29	1
Beryllium	0.010		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:29	1
Boron	1.6		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 13:01	1
Cadmium	0.00030	J	0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:29	1
Calcium	42		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:29	1
Cobalt	0.086		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:29	1
Lead	0.00076	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:29	1
Lithium	0.0066		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:29	1
Selenium	0.00077	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:29	1
Thallium	0.00060	J	0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:29	1
Sodium	11		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:29	1
Potassium	9.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:29	1
Iron	0.037	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:29	1
Magnesium	9.6		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:29	1
Manganese	3.1		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.3		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:21	1
Total Dissolved Solids	280		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/09/22 18:02	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 18:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.39				SU			03/03/22 14:06	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		1.0	0.71	mg/L			03/08/22 17:40	1
Fluoride	1.8		0.10	0.026	mg/L			03/08/22 17:40	1
Sulfate	250		1.0	0.76	mg/L			03/08/22 17:40	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00053	J	0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:36	1
Arsenic	0.00053	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:36	1
Barium	0.0068	J	0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:36	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:36	1
Boron	0.12		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:36	1
Calcium	54		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:36	1
Cobalt	0.00042	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:36	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:36	1
Lithium	0.044		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:36	1
Molybdenum	0.036		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:36	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:36	1
Sodium	110		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:36	1
Potassium	2.7		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:36	1
Iron	0.49	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:36	1
Magnesium	8.2		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:36	1
Manganese	0.84		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	6.2		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:31	1
Total Dissolved Solids	580		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	94		5.0	5.0	mg/L			03/09/22 18:39	1
Bicarbonate Alkalinity as CaCO3	94		5.0	5.0	mg/L			03/09/22 18:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.88				SU			03/03/22 16:27	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			03/08/22 18:03	1
Fluoride	0.045	J	0.10	0.026	mg/L			03/08/22 18:03	1
Sulfate	5.0		1.0	0.76	mg/L			03/08/22 18:03	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0018	J	0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:39	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:39	1
Barium	0.0081	J	0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:39	1
Beryllium	0.00097	J	0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:39	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:39	1
Calcium	4.0		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:39	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:39	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:39	1
Lithium	0.0015	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:39	1
Selenium	0.0020	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:39	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:39	1
Sodium	13		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:39	1
Potassium	2.2		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:39	1
Iron	0.033	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:39	1
Magnesium	0.46	J	0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:39	1
Manganese	0.0050		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:39	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.9		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:41	1
Total Dissolved Solids	69		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	29		5.0	5.0	mg/L			03/09/22 19:24	1
Bicarbonate Alkalinity as CaCO3	29		5.0	5.0	mg/L			03/09/22 19:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.74				SU			03/04/22 09:47	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			03/08/22 18:14	1
Fluoride	0.060	J	0.10	0.026	mg/L			03/08/22 18:14	1
Sulfate	3.6		1.0	0.76	mg/L			03/08/22 18:14	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:41	1
Barium	0.011		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:41	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:41	1
Calcium	5.3		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:41	1
Cobalt	0.00026	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:41	1
Lithium	0.0042	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:41	1
Molybdenum	0.0021	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:41	1
Sodium	8.5		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:41	1
Potassium	1.5		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:41	1
Iron	0.46	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:41	1
Magnesium	3.4		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:41	1
Manganese	0.016		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:55	1
Total Dissolved Solids	55		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	41		5.0	5.0	mg/L			03/09/22 20:06	1
Bicarbonate Alkalinity as CaCO3	41		5.0	5.0	mg/L			03/09/22 20:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.21				SU			03/04/22 11:14	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: Dup-3
Date Collected: 03/04/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11
Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			03/08/22 18:28	1
Fluoride	0.055	J	0.10	0.026	mg/L			03/08/22 18:28	1
Sulfate	3.4		1.0	0.76	mg/L			03/08/22 18:28	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:44	1
Arsenic	0.00028	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:44	1
Barium	0.011		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:44	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:44	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:44	1
Calcium	5.4		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:44	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:44	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:44	1
Lithium	0.0046	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:44	1
Molybdenum	0.0021	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:44	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:44	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:44	1
Sodium	8.4		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:44	1
Potassium	1.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:44	1
Iron	0.46	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:44	1
Magnesium	3.5		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:44	1
Manganese	0.015		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.6		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:10	1
Total Dissolved Solids	97		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	43		5.0	5.0	mg/L			03/09/22 20:19	1
Bicarbonate Alkalinity as CaCO3	43		5.0	5.0	mg/L			03/09/22 20:19	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: DUP-2

Lab Sample ID: 180-134765-1

Date Collected: 03/03/22 00:01

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41	F1	1.0	0.71	mg/L			03/08/22 15:09	1
Fluoride	0.056	J	0.10	0.026	mg/L			03/08/22 15:09	1
Sulfate	55	F1	1.0	0.76	mg/L			03/08/22 15:09	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:47	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:47	1
Barium	0.039		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:47	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:47	1
Boron	0.75		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:47	1
Calcium	23		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:47	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:47	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:47	1
Lithium	0.0041	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:47	1
Selenium	0.0016	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:47	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:47	1
Sodium	11		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:47	1
Potassium	2.5		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:47	1
Iron	0.029	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:47	1
Magnesium	8.1		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:47	1
Manganese	0.021		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:42	1
Total Dissolved Solids	170		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	7.4		5.0	5.0	mg/L			03/09/22 18:46	1
Bicarbonate Alkalinity as CaCO3	7.4		5.0	5.0	mg/L			03/09/22 18:46	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-134765-2

Date Collected: 03/03/22 13:40

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.71	mg/L			03/08/22 15:54	1
Fluoride	0.88		0.10	0.026	mg/L			03/08/22 15:54	1
Sulfate	18		1.0	0.76	mg/L			03/08/22 15:54	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:49	1
Arsenic	0.00057	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:49	1
Barium	0.029		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:49	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:49	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:49	1
Calcium	28		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:49	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:49	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:49	1
Lithium	0.0068		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:49	1
Molybdenum	0.0025	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:49	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:49	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:49	1
Sodium	10		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:49	1
Potassium	1.5		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:49	1
Iron	0.038	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:49	1
Magnesium	4.8		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:49	1
Manganese	0.011		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:53	1
Total Dissolved Solids	140		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	94		5.0	5.0	mg/L			03/09/22 18:54	1
Bicarbonate Alkalinity as CaCO3	94		5.0	5.0	mg/L			03/09/22 18:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61				SU			03/03/22 13:40	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-134765-3

Date Collected: 03/03/22 14:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			03/08/22 16:09	1
Fluoride	0.067	J	0.10	0.026	mg/L			03/08/22 16:09	1
Sulfate	57		1.0	0.76	mg/L			03/08/22 16:09	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:52	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:52	1
Barium	0.041		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:52	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:52	1
Boron	0.79		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:52	1
Calcium	24		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:52	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:52	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:52	1
Lithium	0.0041	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:52	1
Selenium	0.0018	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:52	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:52	1
Sodium	12		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:52	1
Potassium	2.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:52	1
Iron	0.050	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:52	1
Magnesium	8.5		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:52	1
Manganese	0.022		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:52	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:03	1
Total Dissolved Solids	170		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	8.5		5.0	5.0	mg/L			03/09/22 19:01	1
Bicarbonate Alkalinity as CaCO3	8.5		5.0	5.0	mg/L			03/09/22 19:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.22				SU			03/03/22 14:52	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.71	mg/L			03/08/22 16:25	1
Fluoride	0.038	J	0.10	0.026	mg/L			03/08/22 16:25	1
Sulfate	<0.76		1.0	0.76	mg/L			03/08/22 16:25	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:54	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:54	1
Barium	0.012		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:54	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:54	1
Calcium	1.4		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:54	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:54	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:54	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:54	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:54	1
Sodium	2.6		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:54	1
Potassium	0.87		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:54	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:54	1
Magnesium	0.68		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:54	1
Manganese	0.0053		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.3		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:14	1
Total Dissolved Solids	17		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	8.1		5.0	5.0	mg/L			03/09/22 19:08	1
Bicarbonate Alkalinity as CaCO3	8.1		5.0	5.0	mg/L			03/09/22 19:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.49				SU			03/03/22 11:52	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0		1.0	0.71	mg/L			03/15/22 19:07	1
Fluoride	0.21		0.10	0.026	mg/L			03/15/22 19:07	1
Sulfate	3.0		1.0	0.76	mg/L			03/15/22 19:07	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:57	1
Barium	0.045		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:57	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:57	1
Calcium	3.4		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:57	1
Lead	0.00023	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:57	1
Lithium	0.0018	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:57	1
Molybdenum	0.00094	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:57	1
Sodium	9.6		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:57	1
Potassium	1.8		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:57	1
Iron	0.080	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:57	1
Magnesium	0.53		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:57	1
Manganese	0.0026	J	0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.3		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:25	1
Total Dissolved Solids	71		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	28		5.0	5.0	mg/L			03/08/22 21:21	1
Bicarbonate Alkalinity as CaCO3	28		5.0	5.0	mg/L			03/08/22 21:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.31				SU			03/03/22 13:13	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			03/15/22 22:39	1
Fluoride	0.057	J	0.10	0.026	mg/L			03/15/22 22:39	1
Sulfate	1.3		1.0	0.76	mg/L			03/15/22 22:39	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:05	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:05	1
Barium	0.029		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:05	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:05	1
Calcium	0.65		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:05	1
Cobalt	0.0024	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:05	1
Lead	0.00057	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:05	1
Lithium	0.0019	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:05	1
Sodium	3.8		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:05	1
Potassium	1.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:05	1
Iron	0.23	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:05	1
Magnesium	0.74		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:05	1
Manganese	0.057		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.5		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:35	1
Total Dissolved Solids	17		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	11		5.0	5.0	mg/L			03/08/22 20:25	1
Bicarbonate Alkalinity as CaCO3	11		5.0	5.0	mg/L			03/08/22 20:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.40				SU			03/03/22 14:07	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.71	mg/L			03/15/22 22:54	1
Fluoride	0.055	J	0.10	0.026	mg/L			03/15/22 22:54	1
Sulfate	2.3		1.0	0.76	mg/L			03/15/22 22:54	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:07	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:07	1
Barium	0.040		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:07	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:07	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:07	1
Calcium	1.3		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:07	1
Cobalt	0.00026	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:07	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:07	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:07	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:07	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:07	1
Sodium	3.2		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:07	1
Potassium	1.1		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:07	1
Iron	0.084	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:07	1
Magnesium	1.2		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:07	1
Manganese	0.019		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.6		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:28	1
Total Dissolved Solids	21		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	8.3		5.0	5.0	mg/L			03/08/22 20:18	1
Bicarbonate Alkalinity as CaCO3	8.3		5.0	5.0	mg/L			03/08/22 20:18	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.59				SU			03/03/22 15:30	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/15/22 23:09	1
Fluoride	0.043	J	0.10	0.026	mg/L			03/15/22 23:09	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/22 23:09	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:10	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:10	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:10	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:10	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:10	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:10	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:10	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:10	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:10	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:10	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:10	1
Sodium	<0.18		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:10	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:10	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:10	1
Magnesium	<0.050		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:10	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.4		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:11	1
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 19:40	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 19:40	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.71	mg/L			03/16/22 00:25	1
Fluoride	0.038	J	0.10	0.026	mg/L			03/19/22 22:45	1
Sulfate	21		1.0	0.76	mg/L			03/16/22 00:25	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:12	1
Barium	0.38		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:12	1
Boron	0.72		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:12	1
Calcium	16		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:12	1
Cobalt	0.0040		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:12	1
Lithium	0.0035	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:12	1
Sodium	11		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:12	1
Potassium	3.4		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:12	1
Iron	0.13	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:12	1
Magnesium	20		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:12	1
Manganese	0.16		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:53	1
Total Dissolved Solids	200		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	16		5.0	5.0	mg/L			03/12/22 02:53	1
Bicarbonate Alkalinity as CaCO3	16		5.0	5.0	mg/L			03/12/22 02:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.21				SU			03/04/22 10:50	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		10	7.1	mg/L			03/15/22 23:40	10
Fluoride	2.0		0.10	0.026	mg/L			03/15/22 23:25	1
Sulfate	390		10	7.6	mg/L			03/15/22 23:40	10

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0011	J	0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:15	1
Arsenic	0.00078	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:15	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:15	1
Beryllium	0.010		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:15	1
Boron	4.3		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:15	1
Calcium	200		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:15	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:15	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:15	1
Lithium	0.14		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:15	1
Selenium	0.0014	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:15	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:15	1
Sodium	44		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:15	1
Potassium	5.8		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:15	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:15	1
Magnesium	49		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:15	1
Manganese	0.35		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.6	J	3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:08	1
Total Dissolved Solids	1100		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	6.8		5.0	5.0	mg/L			03/12/22 02:19	1
Bicarbonate Alkalinity as CaCO3	6.8		5.0	5.0	mg/L			03/12/22 02:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.23				SU			03/04/22 12:11	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/16/22 00:40	1
Fluoride	0.042	J	0.10	0.026	mg/L			03/19/22 23:02	1
Sulfate	<0.76		1.0	0.76	mg/L			03/16/22 00:40	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:18	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:18	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:18	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:18	1
Boron	0.065	J	0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:18	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:18	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:18	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:18	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:18	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:18	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:18	1
Sodium	<0.18		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:18	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:18	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:18	1
Magnesium	<0.050		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:18	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.3	J	3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:23	1
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 02:26	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 02:26	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/09/22 17:46	1
Fluoride	<0.026		0.10	0.026	mg/L			03/09/22 17:46	1
Sulfate	1.2		1.0	0.76	mg/L			03/09/22 17:46	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/12/22 12:43	03/15/22 14:34	1
Arsenic	0.00037	J	0.0010	0.00028	mg/L		03/12/22 12:43	03/15/22 14:34	1
Barium	<0.0031		0.010	0.0031	mg/L		03/12/22 12:43	03/15/22 14:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:34	1
Boron	0.075	J	0.080	0.060	mg/L		03/12/22 12:43	03/15/22 14:34	1
Cadmium	0.00024	J	0.0025	0.00022	mg/L		03/12/22 12:43	03/15/22 14:34	1
Calcium	<0.13		0.50	0.13	mg/L		03/12/22 12:43	03/15/22 14:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/12/22 12:43	03/15/22 14:34	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/12/22 12:43	03/15/22 14:34	1
Lead	0.00024	J	0.0010	0.00017	mg/L		03/12/22 12:43	03/15/22 14:34	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/12/22 12:43	03/15/22 14:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/12/22 12:43	03/15/22 14:34	1
Thallium	0.00056	J	0.0010	0.00047	mg/L		03/12/22 12:43	03/15/22 14:34	1
Sodium	<0.18		0.50	0.18	mg/L		03/12/22 12:43	03/15/22 14:34	1
Potassium	<0.16		0.50	0.16	mg/L		03/12/22 12:43	03/15/22 14:34	1
Iron	<0.028		0.050	0.028	mg/L		03/12/22 12:43	03/15/22 14:34	1
Magnesium	<0.050		0.50	0.050	mg/L		03/12/22 12:43	03/15/22 14:34	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/12/22 12:43	03/15/22 14:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:37	1
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 18:45	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 02:32	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 02:32	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.3	F1	1.0	0.71	mg/L			03/09/22 17:05	1
Fluoride	0.42	F1	0.10	0.026	mg/L			03/09/22 17:05	1
Sulfate	150	F1	1.0	0.76	mg/L			03/09/22 17:05	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00082	J	0.0020	0.00051	mg/L		03/12/22 12:43	03/15/22 14:52	1
Arsenic	0.00046	J	0.0010	0.00028	mg/L		03/12/22 12:43	03/15/22 14:52	1
Barium	0.038		0.010	0.0031	mg/L		03/12/22 12:43	03/15/22 14:52	1
Beryllium	0.00066	J	0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:52	1
Boron	0.41		0.080	0.060	mg/L		03/12/22 12:43	03/15/22 14:52	1
Cadmium	0.00025	J	0.0025	0.00022	mg/L		03/12/22 12:43	03/15/22 14:52	1
Calcium	31		0.50	0.13	mg/L		03/12/22 12:43	03/15/22 14:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/12/22 12:43	03/15/22 14:52	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		03/12/22 12:43	03/15/22 14:52	1
Lead	0.00036	J	0.0010	0.00017	mg/L		03/12/22 12:43	03/15/22 14:52	1
Lithium	0.011		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:52	1
Molybdenum	0.00084	J	0.015	0.00061	mg/L		03/12/22 12:43	03/15/22 14:52	1
Selenium	0.0072		0.0050	0.00074	mg/L		03/12/22 12:43	03/15/22 14:52	1
Thallium	0.00047	J	0.0010	0.00047	mg/L		03/12/22 12:43	03/15/22 14:52	1
Sodium	28	B	0.50	0.18	mg/L		03/12/22 12:43	03/15/22 14:52	1
Potassium	6.1		0.50	0.16	mg/L		03/12/22 12:43	03/15/22 14:52	1
Iron	0.25		0.050	0.028	mg/L		03/12/22 12:43	03/15/22 14:52	1
Magnesium	7.3		0.50	0.050	mg/L		03/12/22 12:43	03/15/22 14:52	1
Manganese	0.034	B	0.0050	0.0013	mg/L		03/12/22 12:43	03/15/22 14:52	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:52	1
Total Dissolved Solids	260		10	10	mg/L			03/09/22 18:45	1
Total Alkalinity as CaCO3 to pH 4.5	22		5.0	5.0	mg/L			03/12/22 02:38	1
Bicarbonate Alkalinity as CaCO3	22		5.0	5.0	mg/L			03/12/22 02:38	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.34				SU			03/04/22 13:50	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-390804/7
Matrix: Water
Analysis Batch: 390804

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/08/22 12:26	1
Fluoride	<0.026		0.10	0.026	mg/L			03/08/22 12:26	1
Sulfate	<0.76		1.0	0.76	mg/L			03/08/22 12:26	1

Lab Sample ID: LCS 180-390804/5
Matrix: Water
Analysis Batch: 390804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Fluoride	2.50	2.44		mg/L		98	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 180-134765-1 MS
Matrix: Water
Analysis Batch: 390804

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	41	F1	50.0	90.0		mg/L		98	90 - 110
Fluoride	0.056	J	2.50	2.65		mg/L		104	90 - 110
Sulfate	55	F1	50.0	105		mg/L		100	90 - 110

Lab Sample ID: 180-134765-1 MSD
Matrix: Water
Analysis Batch: 390804

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41	F1	50.0	84.3	F1	mg/L		87	90 - 110	6	20
Fluoride	0.056	J	2.50	2.46		mg/L		96	90 - 110	7	20
Sulfate	55	F1	50.0	98.4	F1	mg/L		86	90 - 110	7	20

Lab Sample ID: MB 180-390909/7
Matrix: Water
Analysis Batch: 390909

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/09/22 12:59	1
Fluoride	<0.026		0.10	0.026	mg/L			03/09/22 12:59	1
Sulfate	<0.76		1.0	0.76	mg/L			03/09/22 12:59	1

Lab Sample ID: LCS 180-390909/6
Matrix: Water
Analysis Batch: 390909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.9		mg/L		102	90 - 110
Fluoride	2.50	2.68		mg/L		107	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-134766-2 MS
Matrix: Water
Analysis Batch: 390909

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.3	F1	50.0	57.3		mg/L		104	90 - 110
Fluoride	0.42	F1	2.50	3.04		mg/L		105	90 - 110
Sulfate	150	F1	50.0	188	F1	mg/L		66	90 - 110

Lab Sample ID: 180-134766-2 MSD
Matrix: Water
Analysis Batch: 390909

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.3	F1	50.0	63.1	F1	mg/L		115	90 - 110	10	20
Fluoride	0.42	F1	2.50	3.40	F1	mg/L		119	90 - 110	11	20
Sulfate	150	F1	50.0	205	E	mg/L		100	90 - 110	9	20

Lab Sample ID: MB 180-391414/53
Matrix: Water
Analysis Batch: 391414

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/14/22 02:10	1
Fluoride	<0.026		0.10	0.026	mg/L			03/14/22 02:10	1
Sulfate	<0.76		1.0	0.76	mg/L			03/14/22 02:10	1

Lab Sample ID: LCS 180-391414/52
Matrix: Water
Analysis Batch: 391414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	51.0		mg/L		102	90 - 110
Fluoride	2.50	2.67		mg/L		107	90 - 110
Sulfate	50.0	51.5		mg/L		103	90 - 110

Lab Sample ID: 180-134763-2 MS
Matrix: Water
Analysis Batch: 391414

Client Sample ID: WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.2	F1	50.0	59.3	F1	mg/L		112	90 - 110
Fluoride	0.40	F1	2.50	3.23	F1	mg/L		113	90 - 110
Sulfate	4.8	F1	50.0	61.4	F1	mg/L		113	90 - 110

Lab Sample ID: 180-134763-2 MSD
Matrix: Water
Analysis Batch: 391414

Client Sample ID: WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.2	F1	50.0	58.4		mg/L		110	90 - 110	1	20
Fluoride	0.40	F1	2.50	3.18	F1	mg/L		111	90 - 110	1	20
Sulfate	4.8	F1	50.0	59.9		mg/L		110	90 - 110	3	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-391628/7
Matrix: Water
Analysis Batch: 391628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/15/22 10:39	1
Fluoride	<0.026		0.10	0.026	mg/L			03/15/22 10:39	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/22 10:39	1

Lab Sample ID: LCS 180-391628/6
Matrix: Water
Analysis Batch: 391628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.6		mg/L		97	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

Lab Sample ID: MB 180-392292/7
Matrix: Water
Analysis Batch: 392292

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/19/22 15:47	1
Fluoride	<0.026		0.10	0.026	mg/L			03/19/22 15:47	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/22 15:47	1

Lab Sample ID: LCS 180-392292/6
Matrix: Water
Analysis Batch: 392292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	54.1		mg/L		108	90 - 110
Fluoride	2.50	2.27		mg/L		91	90 - 110
Sulfate	50.0	46.5		mg/L		93	90 - 110

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-391233/1-A
Matrix: Water
Analysis Batch: 391755

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 12:56	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 12:56	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 12:56	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 12:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 12:56	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 12:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 12:56	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 12:56	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 12:56	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 12:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 12:56	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 12:56	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-391233/1-A
Matrix: Water
Analysis Batch: 391755

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 12:56	1
Sodium	<0.18		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 12:56	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 12:56	1
Iron	0.0373	J	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 12:56	1
Magnesium	<0.050		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 12:56	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 12:56	1

Lab Sample ID: MB 180-391233/1-A
Matrix: Water
Analysis Batch: 391946

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:26	1

Lab Sample ID: LCS 180-391233/2-A
Matrix: Water
Analysis Batch: 391755

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.252		mg/L		101	80 - 120
Arsenic	1.00	0.993		mg/L		99	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.500		mg/L		100	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Calcium	25.0	26.9		mg/L		108	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Lead	0.500	0.524		mg/L		105	80 - 120
Lithium	0.500	0.468		mg/L		94	80 - 120
Molybdenum	0.500	0.531		mg/L		106	80 - 120
Selenium	1.00	0.995		mg/L		100	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Sodium	25.0	25.8		mg/L		103	80 - 120
Potassium	25.0	24.9		mg/L		99	80 - 120
Iron	5.00	5.38		mg/L		108	80 - 120
Magnesium	25.0	25.6		mg/L		103	80 - 120
Manganese	0.500	0.484		mg/L		97	80 - 120

Lab Sample ID: LCS 180-391233/2-A
Matrix: Water
Analysis Batch: 391946

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.25		mg/L		100	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-134761-1 MS
Matrix: Water
Analysis Batch: 391755

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limit
Antimony	<0.00051		0.250	0.251		mg/L		101	75 - 125	
Arsenic	0.00037	J	1.00	0.982		mg/L		98	75 - 125	
Barium	0.016		1.00	1.05		mg/L		103	75 - 125	
Beryllium	<0.00027		0.500	0.498		mg/L		100	75 - 125	
Cadmium	<0.00022		0.500	0.511		mg/L		102	75 - 125	
Calcium	12		25.0	39.3		mg/L		111	75 - 125	
Chromium	<0.0015		0.500	0.490		mg/L		98	75 - 125	
Cobalt	0.00056	J	0.500	0.493		mg/L		99	75 - 125	
Lead	0.00033	J	0.500	0.509		mg/L		102	75 - 125	
Lithium	0.0061		0.500	0.480		mg/L		95	75 - 125	
Molybdenum	<0.00061		0.500	0.527		mg/L		105	75 - 125	
Selenium	<0.00074		1.00	1.00		mg/L		100	75 - 125	
Thallium	<0.00047		1.00	1.02		mg/L		102	75 - 125	
Sodium	5.8		25.0	31.4		mg/L		102	75 - 125	
Potassium	2.0		25.0	27.1		mg/L		100	75 - 125	
Iron	1.5	B	5.00	6.59		mg/L		102	75 - 125	
Magnesium	2.9		25.0	28.6		mg/L		103	75 - 125	
Manganese	0.013		0.500	0.497		mg/L		97	75 - 125	

Lab Sample ID: 180-134761-1 MS
Matrix: Water
Analysis Batch: 391946

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limit
Boron	<0.060		1.25	1.30		mg/L		104	75 - 125	

Lab Sample ID: 180-134761-1 MSD
Matrix: Water
Analysis Batch: 391755

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	RPD	Limit	
Antimony	<0.00051		0.250	0.250		mg/L		100	75 - 125	1	20	
Arsenic	0.00037	J	1.00	0.996		mg/L		100	75 - 125	1	20	
Barium	0.016		1.00	1.07		mg/L		105	75 - 125	2	20	
Beryllium	<0.00027		0.500	0.489		mg/L		98	75 - 125	2	20	
Cadmium	<0.00022		0.500	0.516		mg/L		103	75 - 125	1	20	
Calcium	12		25.0	39.5		mg/L		112	75 - 125	1	20	
Chromium	<0.0015		0.500	0.483		mg/L		97	75 - 125	1	20	
Cobalt	0.00056	J	0.500	0.491		mg/L		98	75 - 125	1	20	
Lead	0.00033	J	0.500	0.501		mg/L		100	75 - 125	2	20	
Lithium	0.0061		0.500	0.483		mg/L		95	75 - 125	1	20	
Molybdenum	<0.00061		0.500	0.544		mg/L		109	75 - 125	3	20	
Selenium	<0.00074		1.00	1.03		mg/L		103	75 - 125	3	20	
Thallium	<0.00047		1.00	0.996		mg/L		100	75 - 125	2	20	
Sodium	5.8		25.0	32.7		mg/L		107	75 - 125	4	20	
Potassium	2.0		25.0	28.2		mg/L		105	75 - 125	4	20	
Iron	1.5	B	5.00	6.82		mg/L		107	75 - 125	4	20	
Magnesium	2.9		25.0	29.0		mg/L		104	75 - 125	1	20	
Manganese	0.013		0.500	0.499		mg/L		97	75 - 125	0	20	

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: 180-134761-1 MSD
Matrix: Water
Analysis Batch: 391946

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.060		1.25	1.27		mg/L		101	75 - 125	3	20

Lab Sample ID: MB 180-391389/1-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/12/22 12:43	03/15/22 14:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/12/22 12:43	03/15/22 14:12	1
Barium	<0.0031		0.010	0.0031	mg/L		03/12/22 12:43	03/15/22 14:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:12	1
Boron	<0.060		0.080	0.060	mg/L		03/12/22 12:43	03/15/22 14:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/12/22 12:43	03/15/22 14:12	1
Calcium	<0.13		0.50	0.13	mg/L		03/12/22 12:43	03/15/22 14:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/12/22 12:43	03/15/22 14:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/12/22 12:43	03/15/22 14:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/12/22 12:43	03/15/22 14:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/12/22 12:43	03/15/22 14:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/12/22 12:43	03/15/22 14:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/12/22 12:43	03/15/22 14:12	1
Sodium	0.201	J	0.50	0.18	mg/L		03/12/22 12:43	03/15/22 14:12	1
Potassium	<0.16		0.50	0.16	mg/L		03/12/22 12:43	03/15/22 14:12	1
Iron	<0.028		0.050	0.028	mg/L		03/12/22 12:43	03/15/22 14:12	1
Magnesium	<0.050		0.50	0.050	mg/L		03/12/22 12:43	03/15/22 14:12	1
Manganese	0.00174	J	0.0050	0.0013	mg/L		03/12/22 12:43	03/15/22 14:12	1

Lab Sample ID: LCS 180-391389/2-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.262		mg/L		105	80 - 120
Arsenic	1.00	1.04		mg/L		104	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.485		mg/L		97	80 - 120
Boron	1.25	1.19		mg/L		95	80 - 120
Cadmium	0.500	0.516		mg/L		103	80 - 120
Calcium	25.0	27.5		mg/L		110	80 - 120
Chromium	0.500	0.517		mg/L		103	80 - 120
Cobalt	0.500	0.528		mg/L		106	80 - 120
Lead	0.500	0.525		mg/L		105	80 - 120
Lithium	0.500	0.506		mg/L		101	80 - 120
Molybdenum	0.500	0.526		mg/L		105	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Sodium	25.0	26.0		mg/L		104	80 - 120
Potassium	25.0	26.0		mg/L		104	80 - 120
Iron	5.00	5.39		mg/L		108	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-391389/2-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	25.0	25.5		mg/L		102	80 - 120
Manganese	0.500	0.514		mg/L		103	80 - 120

Lab Sample ID: 180-134766-1 MS
Matrix: Water
Analysis Batch: 391756

Client Sample ID: EB-3
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.257		mg/L		103	75 - 125
Arsenic	0.00037	J	1.00	1.02		mg/L		102	75 - 125
Barium	<0.0031		1.00	1.02		mg/L		102	75 - 125
Beryllium	<0.00027		0.500	0.483		mg/L		97	75 - 125
Boron	0.075	J	1.25	1.15		mg/L		86	75 - 125
Cadmium	0.00024	J	0.500	0.518		mg/L		104	75 - 125
Calcium	<0.13		25.0	26.8		mg/L		107	75 - 125
Chromium	<0.0015		0.500	0.511		mg/L		102	75 - 125
Cobalt	<0.00026		0.500	0.520		mg/L		104	75 - 125
Lead	0.00024	J	0.500	0.517		mg/L		103	75 - 125
Lithium	<0.00083		0.500	0.492		mg/L		98	75 - 125
Molybdenum	<0.00061		0.500	0.519		mg/L		104	75 - 125
Selenium	<0.00074		1.00	1.01		mg/L		101	75 - 125
Thallium	0.00056	J	1.00	1.09		mg/L		109	75 - 125
Sodium	<0.18		25.0	26.2		mg/L		105	75 - 125
Potassium	<0.16		25.0	25.7		mg/L		103	75 - 125
Iron	<0.028		5.00	5.31		mg/L		106	75 - 125
Magnesium	<0.050		25.0	25.3		mg/L		101	75 - 125
Manganese	<0.0013		0.500	0.505		mg/L		101	75 - 125

Lab Sample ID: 180-134766-1 MSD
Matrix: Water
Analysis Batch: 391756

Client Sample ID: EB-3
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.00051		0.250	0.263		mg/L		105	75 - 125	2	20
Arsenic	0.00037	J	1.00	1.03		mg/L		103	75 - 125	1	20
Barium	<0.0031		1.00	1.05		mg/L		105	75 - 125	2	20
Beryllium	<0.00027		0.500	0.478		mg/L		96	75 - 125	1	20
Boron	0.075	J	1.25	1.21		mg/L		90	75 - 125	4	20
Cadmium	0.00024	J	0.500	0.527		mg/L		105	75 - 125	2	20
Calcium	<0.13		25.0	26.9		mg/L		108	75 - 125	0	20
Chromium	<0.0015		0.500	0.525		mg/L		105	75 - 125	3	20
Cobalt	<0.00026		0.500	0.524		mg/L		105	75 - 125	1	20
Lead	0.00024	J	0.500	0.526		mg/L		105	75 - 125	2	20
Lithium	<0.00083		0.500	0.504		mg/L		101	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.529		mg/L		106	75 - 125	2	20
Selenium	<0.00074		1.00	1.03		mg/L		103	75 - 125	2	20
Thallium	0.00056	J	1.00	1.12		mg/L		112	75 - 125	2	20
Sodium	<0.18		25.0	26.7		mg/L		107	75 - 125	2	20
Potassium	<0.16		25.0	26.2		mg/L		105	75 - 125	2	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-134766-1 MSD
Matrix: Water
Analysis Batch: 391756

Client Sample ID: EB-3
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	<0.028		5.00	5.41		mg/L		108	75 - 125	2	20
Magnesium	<0.050		25.0	25.8		mg/L		103	75 - 125	2	20
Manganese	<0.0013		0.500	0.508		mg/L		102	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-391840/1-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 11:31	03/17/22 12:17	1

Lab Sample ID: LCS 180-391840/2-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00277		mg/L		111	80 - 120

Lab Sample ID: MB 180-391862/1-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:44	1

Lab Sample ID: LCS 180-391862/2-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00215		mg/L		86	80 - 120

Lab Sample ID: 180-134765-1 MS
Matrix: Water
Analysis Batch: 392076

Client Sample ID: DUP-2
Prep Type: Total/NA
Prep Batch: 391862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 180-134765-1 MSD
Matrix: Water
Analysis Batch: 392076

Client Sample ID: DUP-2
Prep Type: Total/NA
Prep Batch: 391862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.00111		mg/L		111	75 - 125	9	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 180-391865/1-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:13	1

Lab Sample ID: LCS 180-391865/2-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00251		mg/L		100	80 - 120

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-390812/1-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 13:51	1

Lab Sample ID: LCS 180-390812/2-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	14.4	15.3		mg/L		106	85 - 115

Lab Sample ID: MB 180-390813/1-A
Matrix: Water
Analysis Batch: 390867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 13:59	1

Lab Sample ID: LCS 180-390813/2-A
Matrix: Water
Analysis Batch: 390867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	14.4	14.3		mg/L		99	85 - 115

Lab Sample ID: 180-134765-7 MS
Matrix: Water
Analysis Batch: 390867

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 390813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	4.6		14.4	15.4		mg/L		75	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 180-134765-7 MSD
Matrix: Water
Analysis Batch: 390867

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 390813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	4.6		14.4	15.7		mg/L		77	75 - 125	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-390883/2
Matrix: Water
Analysis Batch: 390883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/08/22 18:43	1

Lab Sample ID: LCS 180-390883/1
Matrix: Water
Analysis Batch: 390883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	469	452		mg/L		96	85 - 115

Lab Sample ID: 180-134763-7 DU
Matrix: Water
Analysis Batch: 390883

Client Sample ID: WGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	580		574		mg/L		1	10

Lab Sample ID: MB 180-391026/2
Matrix: Water
Analysis Batch: 391026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 16:20	1

Lab Sample ID: LCS 180-391026/1
Matrix: Water
Analysis Batch: 391026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	469	444		mg/L		95	85 - 115

Lab Sample ID: MB 180-391040/2
Matrix: Water
Analysis Batch: 391040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 18:45	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-391040/1
Matrix: Water
Analysis Batch: 391040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	469	448		mg/L		96	85 - 115

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-390904/30
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 18:30	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 18:30	1

Lab Sample ID: MB 180-390904/54
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 21:14	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 21:14	1

Lab Sample ID: MB 180-390904/6
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.54		5.0	5.0	mg/L			03/08/22 15:48	1
Bicarbonate Alkalinity as CaCO3	5.54		5.0	5.0	mg/L			03/08/22 15:48	1

Lab Sample ID: LCS 180-390904/29
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	242		mg/L		91	90 - 110

Lab Sample ID: LCS 180-390904/53
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	249		mg/L		94	90 - 110

Lab Sample ID: LLCS 180-390904/28
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		89	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: LLCS 180-390904/52
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		89	75 - 125

Lab Sample ID: 180-134765-5 DU
Matrix: Water
Analysis Batch: 390904

Client Sample ID: WGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	28		29.4		mg/L		6	20
Bicarbonate Alkalinity as CaCO3	28		29.4		mg/L		6	20

Lab Sample ID: 180-134765-8 DU
Matrix: Water
Analysis Batch: 390904

Client Sample ID: FB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0		<5.0		mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-391320/30
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/09/22 19:59	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 19:59	1

Lab Sample ID: MB 180-391320/6
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/09/22 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 17:15	1

Lab Sample ID: LCS 180-391320/29
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	242		mg/L		92	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-391320/5
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	240		mg/L		91	90 - 110

Lab Sample ID: LLCS 180-391320/28
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	13.7		mg/L		86	75 - 125

Lab Sample ID: LLCS 180-391320/4
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		88	75 - 125

Lab Sample ID: 180-134763-10 DU
Matrix: Water
Analysis Batch: 391320

Client Sample ID: WGWC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	41		40.8		mg/L		0.6	20
Bicarbonate Alkalinity as CaCO3	41		40.8		mg/L		0.6	20

Lab Sample ID: MB 180-391369/30
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1

Lab Sample ID: MB 180-391369/54
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1

Lab Sample ID: LCS 180-391369/53
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	248		mg/L		94	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-391369/52
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	15.1		mg/L		95	75 - 125

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

HPLC/IC

Analysis Batch: 390804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-134763-6	WGWC-24	Total/NA	Water	EPA 300.0 R2.1	
180-134763-7	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-134763-9	WGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-134763-10	WGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-134763-11	Dup-3	Total/NA	Water	EPA 300.0 R2.1	
180-134765-1	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-134765-2	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-134765-3	WGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-134765-4	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390804/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390804/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134765-1 MS	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-134765-1 MSD	DUP-2	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 390909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-134766-1	EB-3	Total/NA	Water	EPA 300.0 R2.1	
180-134766-2	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390909/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390909/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134766-2 MS	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-134766-2 MSD	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 391414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
MB 180-391414/53	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-391414/52	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134763-2 MS	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-134763-2 MSD	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 391628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-5	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-134765-6	WGWC-14A	Total/NA	Water	EPA 300.0 R2.1	
180-134765-7	WGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-134765-8	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-134765-9	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-134765-10	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-134765-10	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-134765-11	FB-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-391628/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-391628/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 392292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-9	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-134765-11	FB-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-392292/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

HPLC/IC (Continued)

Analysis Batch: 392292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-392292/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 391233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total Recoverable	Water	3005A	
180-134763-2	WGWC-19	Total Recoverable	Water	3005A	
180-134763-5	WGWC-10	Total Recoverable	Water	3005A	
180-134763-6	WGWC-24	Total Recoverable	Water	3005A	
180-134763-7	WGWC-21	Total Recoverable	Water	3005A	
180-134763-9	WGWC-23	Total Recoverable	Water	3005A	
180-134763-10	WGWC-17	Total Recoverable	Water	3005A	
180-134763-11	Dup-3	Total Recoverable	Water	3005A	
180-134765-1	DUP-2	Total Recoverable	Water	3005A	
180-134765-2	WGWC-15	Total Recoverable	Water	3005A	
180-134765-3	WGWC-16	Total Recoverable	Water	3005A	
180-134765-4	WGWA-7	Total Recoverable	Water	3005A	
180-134765-5	WGWC-13	Total Recoverable	Water	3005A	
180-134765-6	WGWC-14A	Total Recoverable	Water	3005A	
180-134765-7	WGWC-11	Total Recoverable	Water	3005A	
180-134765-8	FB-2	Total Recoverable	Water	3005A	
180-134765-9	WGWC-25	Total Recoverable	Water	3005A	
180-134765-10	WGWC-20	Total Recoverable	Water	3005A	
180-134765-11	FB-3	Total Recoverable	Water	3005A	
MB 180-391233/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-391233/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-134761-1 MS	WGWC-12	Total Recoverable	Water	3005A	
180-134761-1 MSD	WGWC-12	Total Recoverable	Water	3005A	

Prep Batch: 391389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134766-1	EB-3	Total Recoverable	Water	3005A	
180-134766-2	WGWC-22	Total Recoverable	Water	3005A	
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-134766-1 MS	EB-3	Total Recoverable	Water	3005A	
180-134766-1 MSD	EB-3	Total Recoverable	Water	3005A	

Analysis Batch: 391755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134763-2	WGWC-19	Total Recoverable	Water	EPA 6020B	391233
180-134763-5	WGWC-10	Total Recoverable	Water	EPA 6020B	391233
180-134763-6	WGWC-24	Total Recoverable	Water	EPA 6020B	391233
180-134763-7	WGWC-21	Total Recoverable	Water	EPA 6020B	391233
180-134763-9	WGWC-23	Total Recoverable	Water	EPA 6020B	391233
180-134763-10	WGWC-17	Total Recoverable	Water	EPA 6020B	391233
180-134763-11	Dup-3	Total Recoverable	Water	EPA 6020B	391233
180-134765-1	DUP-2	Total Recoverable	Water	EPA 6020B	391233
180-134765-2	WGWC-15	Total Recoverable	Water	EPA 6020B	391233

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Metals (Continued)

Analysis Batch: 391755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-3	WGWC-16	Total Recoverable	Water	EPA 6020B	391233
180-134765-4	WGWA-7	Total Recoverable	Water	EPA 6020B	391233
180-134765-5	WGWC-13	Total Recoverable	Water	EPA 6020B	391233
180-134765-6	WGWC-14A	Total Recoverable	Water	EPA 6020B	391233
180-134765-7	WGWC-11	Total Recoverable	Water	EPA 6020B	391233
180-134765-8	FB-2	Total Recoverable	Water	EPA 6020B	391233
180-134765-9	WGWC-25	Total Recoverable	Water	EPA 6020B	391233
180-134765-10	WGWC-20	Total Recoverable	Water	EPA 6020B	391233
180-134765-11	FB-3	Total Recoverable	Water	EPA 6020B	391233
MB 180-391233/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391233
LCS 180-391233/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MS	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MSD	WGWC-12	Total Recoverable	Water	EPA 6020B	391233

Analysis Batch: 391756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134766-1	EB-3	Total Recoverable	Water	EPA 6020B	391389
180-134766-2	WGWC-22	Total Recoverable	Water	EPA 6020B	391389
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391389
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391389
180-134766-1 MS	EB-3	Total Recoverable	Water	EPA 6020B	391389
180-134766-1 MSD	EB-3	Total Recoverable	Water	EPA 6020B	391389

Prep Batch: 391840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	7470A	
180-134763-2	WGWC-19	Total/NA	Water	7470A	
MB 180-391840/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391840/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 391862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-1	DUP-2	Total/NA	Water	7470A	
180-134765-2	WGWC-15	Total/NA	Water	7470A	
180-134765-3	WGWC-16	Total/NA	Water	7470A	
180-134765-4	WGWA-7	Total/NA	Water	7470A	
180-134765-5	WGWC-13	Total/NA	Water	7470A	
180-134765-6	WGWC-14A	Total/NA	Water	7470A	
180-134765-7	WGWC-11	Total/NA	Water	7470A	
180-134765-8	FB-2	Total/NA	Water	7470A	
180-134765-9	WGWC-25	Total/NA	Water	7470A	
180-134765-10	WGWC-20	Total/NA	Water	7470A	
180-134765-11	FB-3	Total/NA	Water	7470A	
180-134766-1	EB-3	Total/NA	Water	7470A	
180-134766-2	WGWC-22	Total/NA	Water	7470A	
MB 180-391862/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391862/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-134765-1 MS	DUP-2	Total/NA	Water	7470A	
180-134765-1 MSD	DUP-2	Total/NA	Water	7470A	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Metals

Prep Batch: 391865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	7470A	
180-134763-6	WGWC-24	Total/NA	Water	7470A	
180-134763-7	WGWC-21	Total/NA	Water	7470A	
180-134763-9	WGWC-23	Total/NA	Water	7470A	
180-134763-10	WGWC-17	Total/NA	Water	7470A	
180-134763-11	Dup-3	Total/NA	Water	7470A	
MB 180-391865/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391865/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 391946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134763-2	WGWC-19	Total Recoverable	Water	EPA 6020B	391233
180-134763-5	WGWC-10	Total Recoverable	Water	EPA 6020B	391233
180-134763-6	WGWC-24	Total Recoverable	Water	EPA 6020B	391233
MB 180-391233/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391233
LCS 180-391233/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MS	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MSD	WGWC-12	Total Recoverable	Water	EPA 6020B	391233

Analysis Batch: 392076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	EPA 7470A	391840
180-134763-2	WGWC-19	Total/NA	Water	EPA 7470A	391840
180-134763-5	WGWC-10	Total/NA	Water	EPA 7470A	391865
180-134763-6	WGWC-24	Total/NA	Water	EPA 7470A	391865
180-134763-7	WGWC-21	Total/NA	Water	EPA 7470A	391865
180-134763-9	WGWC-23	Total/NA	Water	EPA 7470A	391865
180-134763-10	WGWC-17	Total/NA	Water	EPA 7470A	391865
180-134763-11	Dup-3	Total/NA	Water	EPA 7470A	391865
180-134765-1	DUP-2	Total/NA	Water	EPA 7470A	391862
180-134765-2	WGWC-15	Total/NA	Water	EPA 7470A	391862
180-134765-3	WGWC-16	Total/NA	Water	EPA 7470A	391862
180-134765-4	WGWA-7	Total/NA	Water	EPA 7470A	391862
180-134765-5	WGWC-13	Total/NA	Water	EPA 7470A	391862
180-134765-6	WGWC-14A	Total/NA	Water	EPA 7470A	391862
180-134765-7	WGWC-11	Total/NA	Water	EPA 7470A	391862
180-134765-8	FB-2	Total/NA	Water	EPA 7470A	391862
180-134765-9	WGWC-25	Total/NA	Water	EPA 7470A	391862
180-134765-10	WGWC-20	Total/NA	Water	EPA 7470A	391862
180-134765-11	FB-3	Total/NA	Water	EPA 7470A	391862
180-134766-1	EB-3	Total/NA	Water	EPA 7470A	391862
180-134766-2	WGWC-22	Total/NA	Water	EPA 7470A	391862
MB 180-391840/1-A	Method Blank	Total/NA	Water	EPA 7470A	391840
MB 180-391862/1-A	Method Blank	Total/NA	Water	EPA 7470A	391862
MB 180-391865/1-A	Method Blank	Total/NA	Water	EPA 7470A	391865
LCS 180-391840/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391840
LCS 180-391862/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391862
LCS 180-391865/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391865
180-134765-1 MS	DUP-2	Total/NA	Water	EPA 7470A	391862
180-134765-1 MSD	DUP-2	Total/NA	Water	EPA 7470A	391862

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

General Chemistry

Prep Batch: 390812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	9030B	
180-134763-5	WGWC-10	Total/NA	Water	9030B	
180-134763-6	WGWC-24	Total/NA	Water	9030B	
180-134763-7	WGWC-21	Total/NA	Water	9030B	
180-134765-1	DUP-2	Total/NA	Water	9030B	
180-134765-2	WGWC-15	Total/NA	Water	9030B	
180-134765-3	WGWC-16	Total/NA	Water	9030B	
180-134765-4	WGWA-7	Total/NA	Water	9030B	
180-134765-5	WGWC-13	Total/NA	Water	9030B	
180-134765-6	WGWC-14A	Total/NA	Water	9030B	
MB 180-390812/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	9030B	

Prep Batch: 390813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	9030B	
180-134763-9	WGWC-23	Total/NA	Water	9030B	
180-134763-10	WGWC-17	Total/NA	Water	9030B	
180-134763-11	Dup-3	Total/NA	Water	9030B	
180-134765-7	WGWC-11	Total/NA	Water	9030B	
180-134765-8	FB-2	Total/NA	Water	9030B	
180-134765-9	WGWC-25	Total/NA	Water	9030B	
180-134765-10	WGWC-20	Total/NA	Water	9030B	
180-134765-11	FB-3	Total/NA	Water	9030B	
180-134766-1	EB-3	Total/NA	Water	9030B	
180-134766-2	WGWC-22	Total/NA	Water	9030B	
MB 180-390813/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390813/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134765-7 MS	WGWC-11	Total/NA	Water	9030B	
180-134765-7 MSD	WGWC-11	Total/NA	Water	9030B	

Analysis Batch: 390865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	EPA 9034	390812
180-134763-5	WGWC-10	Total/NA	Water	EPA 9034	390812
180-134763-6	WGWC-24	Total/NA	Water	EPA 9034	390812
180-134763-7	WGWC-21	Total/NA	Water	EPA 9034	390812
180-134765-1	DUP-2	Total/NA	Water	EPA 9034	390812
180-134765-2	WGWC-15	Total/NA	Water	EPA 9034	390812
180-134765-3	WGWC-16	Total/NA	Water	EPA 9034	390812
180-134765-4	WGWA-7	Total/NA	Water	EPA 9034	390812
180-134765-5	WGWC-13	Total/NA	Water	EPA 9034	390812
180-134765-6	WGWC-14A	Total/NA	Water	EPA 9034	390812
MB 180-390812/1-A	Method Blank	Total/NA	Water	EPA 9034	390812
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390812

Analysis Batch: 390867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	EPA 9034	390813
180-134763-9	WGWC-23	Total/NA	Water	EPA 9034	390813
180-134763-10	WGWC-17	Total/NA	Water	EPA 9034	390813

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

General Chemistry (Continued)

Analysis Batch: 390867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-11	Dup-3	Total/NA	Water	EPA 9034	390813
180-134765-7	WGWC-11	Total/NA	Water	EPA 9034	390813
180-134765-8	FB-2	Total/NA	Water	EPA 9034	390813
180-134765-9	WGWC-25	Total/NA	Water	EPA 9034	390813
180-134765-10	WGWC-20	Total/NA	Water	EPA 9034	390813
180-134765-11	FB-3	Total/NA	Water	EPA 9034	390813
180-134766-1	EB-3	Total/NA	Water	EPA 9034	390813
180-134766-2	WGWC-22	Total/NA	Water	EPA 9034	390813
MB 180-390813/1-A	Method Blank	Total/NA	Water	EPA 9034	390813
LCS 180-390813/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390813
180-134765-7 MS	WGWC-11	Total/NA	Water	EPA 9034	390813
180-134765-7 MSD	WGWC-11	Total/NA	Water	EPA 9034	390813

Analysis Batch: 390883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	SM 2540C	
180-134763-6	WGWC-24	Total/NA	Water	SM 2540C	
180-134763-7	WGWC-21	Total/NA	Water	SM 2540C	
180-134763-9	WGWC-23	Total/NA	Water	SM 2540C	
180-134763-10	WGWC-17	Total/NA	Water	SM 2540C	
180-134763-11	Dup-3	Total/NA	Water	SM 2540C	
180-134765-1	DUP-2	Total/NA	Water	SM 2540C	
180-134765-2	WGWC-15	Total/NA	Water	SM 2540C	
180-134765-3	WGWC-16	Total/NA	Water	SM 2540C	
180-134765-4	WGWA-7	Total/NA	Water	SM 2540C	
MB 180-390883/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-390883/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-134763-7 DU	WGWC-21	Total/NA	Water	SM 2540C	

Analysis Batch: 390904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	SM2320 B	
180-134765-5	WGWC-13	Total/NA	Water	SM2320 B	
180-134765-6	WGWC-14A	Total/NA	Water	SM2320 B	
180-134765-7	WGWC-11	Total/NA	Water	SM2320 B	
180-134765-8	FB-2	Total/NA	Water	SM2320 B	
MB 180-390904/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-390904/54	Method Blank	Total/NA	Water	SM2320 B	
MB 180-390904/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-390904/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-390904/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-390904/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-390904/52	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134765-5 DU	WGWC-13	Total/NA	Water	SM2320 B	
180-134765-8 DU	FB-2	Total/NA	Water	SM2320 B	

Analysis Batch: 391026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	SM 2540C	
180-134765-5	WGWC-13	Total/NA	Water	SM 2540C	
180-134765-6	WGWC-14A	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

General Chemistry (Continued)

Analysis Batch: 391026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-7	WGWC-11	Total/NA	Water	SM 2540C	
180-134765-8	FB-2	Total/NA	Water	SM 2540C	
180-134765-9	WGWC-25	Total/NA	Water	SM 2540C	
180-134765-10	WGWC-20	Total/NA	Water	SM 2540C	
180-134765-11	FB-3	Total/NA	Water	SM 2540C	
MB 180-391026/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-391026/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 391040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	SM 2540C	
180-134766-1	EB-3	Total/NA	Water	SM 2540C	
180-134766-2	WGWC-22	Total/NA	Water	SM 2540C	
MB 180-391040/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-391040/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 391320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	SM2320 B	
180-134763-6	WGWC-24	Total/NA	Water	SM2320 B	
180-134763-7	WGWC-21	Total/NA	Water	SM2320 B	
180-134763-9	WGWC-23	Total/NA	Water	SM2320 B	
180-134763-10	WGWC-17	Total/NA	Water	SM2320 B	
180-134763-11	Dup-3	Total/NA	Water	SM2320 B	
180-134765-1	DUP-2	Total/NA	Water	SM2320 B	
180-134765-2	WGWC-15	Total/NA	Water	SM2320 B	
180-134765-3	WGWC-16	Total/NA	Water	SM2320 B	
180-134765-4	WGWA-7	Total/NA	Water	SM2320 B	
MB 180-391320/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391320/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391320/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-391320/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391320/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391320/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134763-10 DU	WGWC-17	Total/NA	Water	SM2320 B	

Analysis Batch: 391369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	SM2320 B	
180-134765-9	WGWC-25	Total/NA	Water	SM2320 B	
180-134765-10	WGWC-20	Total/NA	Water	SM2320 B	
180-134765-11	FB-3	Total/NA	Water	SM2320 B	
180-134766-1	EB-3	Total/NA	Water	SM2320 B	
180-134766-2	WGWC-22	Total/NA	Water	SM2320 B	
MB 180-391369/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/54	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391369/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/52	Lab Control Sample	Total/NA	Water	SM2320 B	

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Field Service / Mobile Lab

Analysis Batch: 391279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	Field Sampling	
180-134763-2	WGWC-19	Total/NA	Water	Field Sampling	
180-134763-5	WGWC-10	Total/NA	Water	Field Sampling	
180-134763-6	WGWC-24	Total/NA	Water	Field Sampling	
180-134763-7	WGWC-21	Total/NA	Water	Field Sampling	
180-134763-9	WGWC-23	Total/NA	Water	Field Sampling	
180-134763-10	WGWC-17	Total/NA	Water	Field Sampling	

Analysis Batch: 391283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-2	WGWC-15	Total/NA	Water	Field Sampling	
180-134765-3	WGWC-16	Total/NA	Water	Field Sampling	
180-134765-4	WGWA-7	Total/NA	Water	Field Sampling	
180-134765-5	WGWC-13	Total/NA	Water	Field Sampling	
180-134765-6	WGWC-14A	Total/NA	Water	Field Sampling	
180-134765-7	WGWC-11	Total/NA	Water	Field Sampling	
180-134765-9	WGWC-25	Total/NA	Water	Field Sampling	
180-134765-10	WGWC-20	Total/NA	Water	Field Sampling	

Analysis Batch: 391685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134766-2	WGWC-22	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

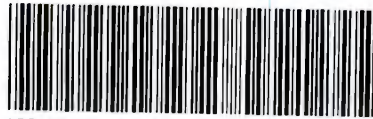
Chain of Custody Record

244- ATLANTA



Environment Testing
America

Client Information		Sampler: <u>T. Johnson</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:								
Client Contact: SCS Contacts		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:								
Company: GA Power				Analysis Requested						Job #:						
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 6020/7470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 & 228 (SW-846 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers		Preservation Codes:	
City: Atlanta		TAT Requested (days):													A - HCL	M - Hexane
State, Zip: GA, 30308		PO #:													B - NaOH	N - None
Phone: 404-506-7116(Tel)		WO #:													C - Zn Acetate	O - AsNaO2
Email: SCS Contacts		Project #: 18019922													D - Nitric Acid	P - Na2O4S
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:													E - NaHSO4	Q - Na2SO3
Site:															F - MeOH	R - Na2S2O3
															G - Amchlor	S - H2SO4
				H - Ascorbic Acid	T - TSP Dodecahydrate											
				I - Ice	U - Acetone											
				J - DI Water	V - MCAA											
				K - EDTA	W - pH 4-5											
				L - EDA	Z - other (specify)											
Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed																
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)											
WGWC-12		3/14/22	1430	G	Water						5	pH= 6.79				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				
				G	Water							pH=				



180-134761 Chain of Custody

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-4-22 / 1706</u>		Company: <u>AEC</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/14/22 17:00</u>		Company: <u>ETO</u>		Date/Time: <u>3/14/22 17:06</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/15/22 900</u>		Company: <u>ETA</u>		Date/Time: <u>3/15/22 900</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244- ATLANTA

Environment Testing
America

Client Information		Sampler: <i>L. Johnson & A. Schmitter</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:					
Client Contact:		Phone: <i>770-594-5998</i>		E-Mail: <i>shali.brown@eurofinset.com</i>				Page:					
SCS Contacts		Company: GA Power		Analysis Requested						Job #:			
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Field Filtered Sample (Yes or No) Plutonium (MS/MSB) (Yes or No) App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2540C) App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti Radium 226 & 228 (SW-846 9316/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium						Preservation Codes:			
City: Atlanta		TAT Requested (days):								A - HCL		M - Hexane	
State, Zip: GA, 30308		PO #:								B - NaOH		N - None	
Phone: 404-506-7116(Tel)		WO #:								C - Zn Acetate		O - AsNaO2	
Email: SCS Contacts		Project #:								D - Nitric Acid		P - Na2O4S	
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:		E - NaHSO4		Q - Na2SO3							
Site:				F - MeOH		R - Na2S2O3							
				G - Amchlor		S - H2SO4							
				H - Ascorbic Acid		T - TSP Dodecahydrate							
				I - Ice		U - Acetone							
				J - DI Water		V - MCAA							
				K - EDTA		W - pH 4-5							
				L - EDA		Z - other (specify)							
				Other:									
				Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed									
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Total Number of Containers		pH	
WGWA-18		3/3/22		1240		G		Water		5		5.94	
WGWC-19		3/3/22		1405		G		Water		5		6.69	
WGWC-8		3/3/22		1645		G		Water		5		5.21	
WGWC-9		3/3/22		1525		G		Water		5		5.86	
WGWC-10		3/3/22		1152		G		Water		5		6.36	
WGWC-24		3/3/22		1406		G		Water		7		4.39	
WGWC-21		3/3/22		1627		G		Water		5		6.88	
EB-2		3/3/22		1615		G		Water		5		—	
WGWC-23		3/4/22		0947		G		Water		7		5.74 (Extra Pack)	
WGWC-17		3/4/22		1114		G		Water		5		6.21	
Dup-3		3/4/22		—		G		Water		5		—	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:							
Relinquished by: <i>[Signature]</i>		Date/Time: 3-4-22/1706		Company: ACC		Received by: <i>[Signature]</i>		Date/Time: 3/4/22 12:00		Company: ETN			
Relinquished by: <i>[Signature]</i>		Date/Time: 3/4/22 17:00		Company: ETN		Received by: <i>[Signature]</i>		Date/Time: 3/5/22 9:00		Company: EETA-Pitt			
Relinquished by: <i>[Signature]</i>		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No						Custody Seal No.:							
						Cooler Temperature(s) °C and Other Remarks:							

180-134763 Chain of Custody



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Chain of Custody Record



Environment Testing
America

244-ATLANTA

Client Information		Sampler: <i>S. Brown / H. Auld</i>		Lab PM: Brown, Shali		Center Tracking No.:		COC No.:			
Client Contact SCS Contacts		Phone: <i>770-594-5998</i>		E-Mail: <i>shali.brown@eurofinset.com</i>				Page:			
Company: GA Power		Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Analysis Requested		Job #:			
City: Atlanta		State, Zip: GA, 30308		TAT Requested (days):		App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2640C) App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti Radium 226 & 228 (SW-546 9316/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium		Preservation Codes:			
Phone: 404-506-7116(Tel)		PO #:		Project #: 18019922				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Email: SCS Contacts		WO #:		SSOW#:				Other:		Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed	
Project Name: CCR - Plant Wansley Ash Pond		Site:									
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)			
								Field Filtered Sample (Yes or No)			
								Form (MS/MS) (Yes or No)			
								Preservation Code:			
<i>Dup-2</i>		<i>3/3/22</i>		<i>---</i>		<i>G</i>		<i>Water</i>			
<i>w6wc-15</i>		<i>3/3/22</i>		<i>1340</i>		<i>G</i>		<i>Water</i>			
<i>w6wc-16</i>		<i>3/3/22</i>		<i>1452</i>		<i>G</i>		<i>Water</i>			
<i>w6wa-7</i>		<i>3/3/22</i>		<i>1152</i>		<i>G</i>		<i>Water</i>			
<i>w6wc-13</i>		<i>3/3/22</i>		<i>1313</i>		<i>G</i>		<i>Water</i>			
<i>w6wc-14A</i>		<i>3/3/22</i>		<i>1407</i>		<i>G</i>		<i>Water</i>			
<i>w6wc-11</i>		<i>3/3/22</i>		<i>1530</i>		<i>G</i>		<i>Water</i>			
<i>FB-2</i>		<i>3/3/22</i>		<i>1515</i>		<i>G</i>		<i>Water</i>			
<i>w6wc-25</i>		<i>3/4/22</i>		<i>1050</i>		<i>G</i>		<i>Water</i>			
<i>w6wc-20</i>		<i>3/4/22</i>		<i>1211</i>		<i>G</i>		<i>Water</i>			
<i>FB-3</i>		<i>3/4/22</i>		<i>1250</i>		<i>G</i>		<i>Water</i>			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: <i>3/4/22 144</i>		Company: <i>ACC</i>		Received by: <i>[Signature]</i>		Date/Time: <i>3-4-22/1440</i>		Company: <i>ACC</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>3-4-22/1706</i>		Company: <i>ACC</i>		Received by: <i>[Signature]</i>		Date/Time: <i>3/4/22 17:06</i>		Company: <i>ETA</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>3/4/22 17:50</i>		Company: <i>ETA</i>		Received by: <i>[Signature]</i>		Date/Time: <i>3/5/22 900</i>		Company: <i>BBAT P/B</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							



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Chain of Custody Record

244- ATLANTA

Environment Testing
America

Client Information		Sampler: <i>S. Brown</i>	Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:		
Client Contact: SCS Contacts		Phone: <i>770-591-5940</i>	E-Mail: shali.brown@eurofinset.com				Page:		
Company: GA Power		Analysis Requested					Job #:		
Address: 241 Ralph McGill Blvd SE							Due Date Requested:		Preservation Codes:
City: Atlanta		TAT Requested (days):		Field Filtered Sample (Yes or No) Perom (MS/MSD) (Yes or No) App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2540C) App IV Metals (EPA 60207470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti Radium 226 & 228 (SW-546 9315/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
State, Zip: GA, 30308		PO #:				Other:			
Phone: 404-506-7116(Tel)		WO #:		Total Number of containers		Special Instructions/Note:			
Email: SCS Contacts		Project #:		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Major Ions to include Alkalinity, Sulfide, and Metals as listed			
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:		Sample Type (C=comp, G=grab)					
Site:		Sample Date		Sample Time		Preservation Code:			
Sample Identification									
<i>EB-3</i>		<i>3/4/22</i>		<i>1315</i>		<i>G</i> Water <i>NN</i> ✓ ✓ ✓ ✓ ✓ ✓ ✓ <i>5</i> pH= <i>NA</i>			
<i>WGWC-22</i>		<i>3/4/22</i>		<i>1350</i>		<i>G</i> Water <i>NN</i> ✓ ✓ ✓ ✓ ✓ ✓ ✓ <i>5</i> pH= <i>5.34</i>			
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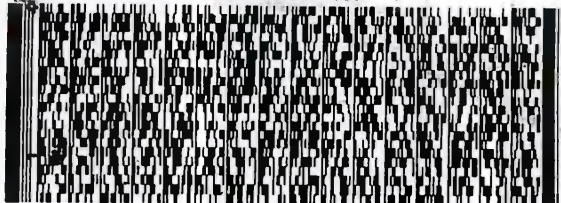
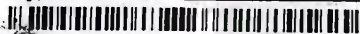
180-134766 Chain of Custody

Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: <i>[Signature]</i>	Date/Time: <i>2/4/22 1440</i>	Company: <i>ACC</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3-4-22/1440</i>	Company: <i>ACC</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3-4-22/1706</i>	Company: <i>ACC</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3/4/22 17:00</i>	Company: <i>ETA</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3/4/22 17:10</i>	Company: <i>ETA</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3/5/22 9:00</i>	Company: <i>ETA/PA</i>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: <i>3/4/22</i>		Cooler Temperature(s) °C and Other Remarks:		

UNITED STATES US

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC PLT WANSLEY



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6 of 6

MPS# 5220 7116 6497

Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

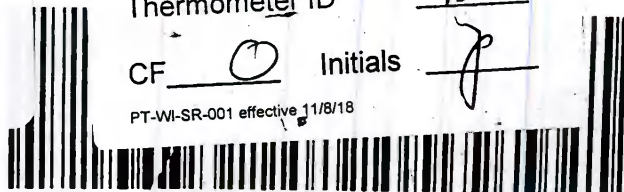
15238
PIT

Uncorrected temp
Thermometer ID

29 °C
16

CF Ⓞ Initials J

PT-WI-SR-001 effective 11/8/18

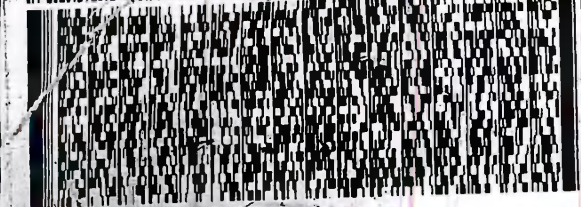


180-134761 Waybill

UNITED STATES US

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC PLT WANSLEY



FedEx Express



2 of 6

MPS# 5220 7116 6453

Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PIT

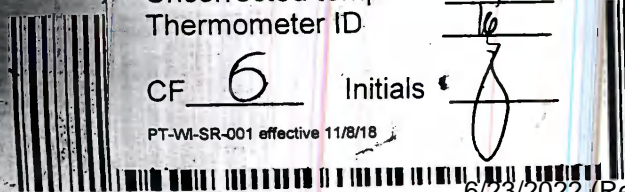
PA-US

Uncorrected temp
Thermometer ID

27 °C
16

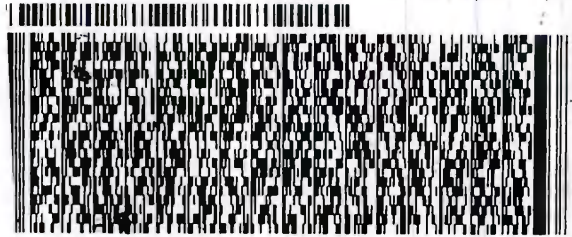
CF 6 Initials J

PT-WI-SR-001 effective 11/8/18



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TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY

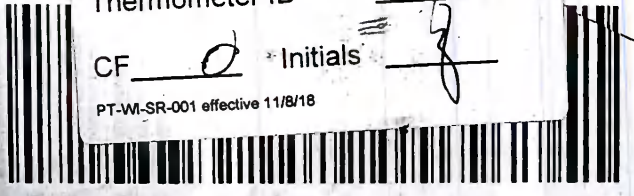


4 of 6
MPS# 253 5220 7116 6475
Istr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PIT

Uncorrected temp 2.9 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18



TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY

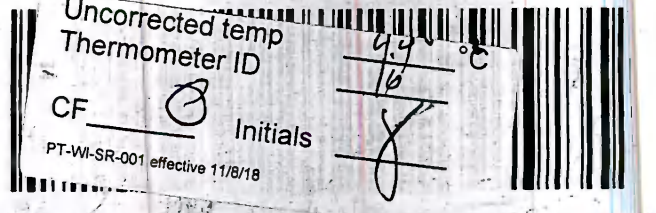


5 of 6
MPS# 0263 5220 7116 6486
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp 4.4 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18



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TestAmerica

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Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 95 LB
CAD: 859116/CAFE3510

BILL RECIPIENT

82 SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 966-7058
REF: ACC PLT WANSLEY

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 300
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 95 LB
CAD: 859116/CAFE3510

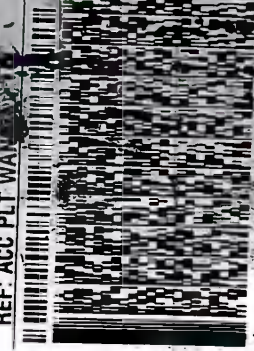
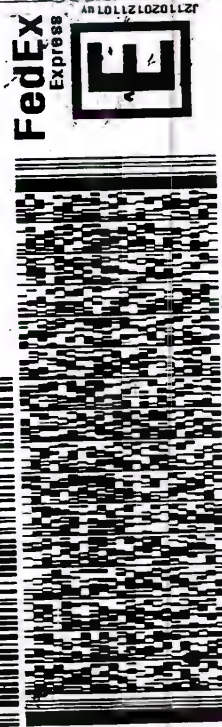
BILL RECIPIENT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 966-7058

REF: ACC PLT WAN



3 of 6
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 5220 7116 6464
0263

Mstr# 5220 7116 6442
0201

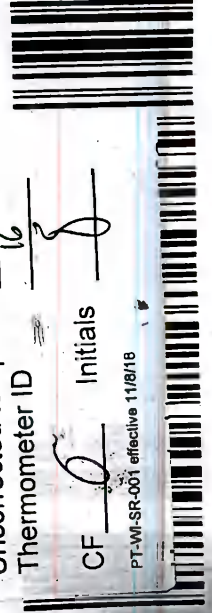
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15238
PA-US PIT

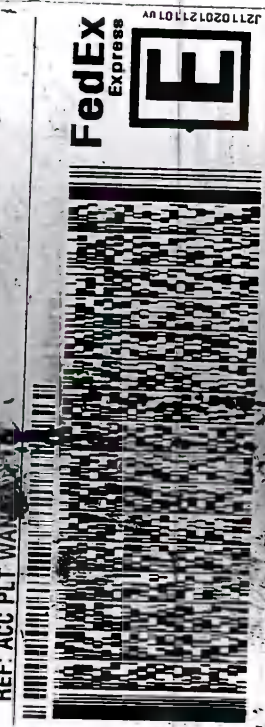
Uncorrected temp 4.2 °C
Thermometer ID 16

CF O Initials J

PT-WI-SR-001 effective 11/8/18



6/23/2022 (Rev. 1)



1 of 6
SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 5220 7116 6442
0201

MASTER

XO

15238
PA-US PIT

Uncorrected temp 4.9 °C
Thermometer ID 16

CF O Initials J

PT-WI-SR-001 effective 11/8/18



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FedEx

eurofins

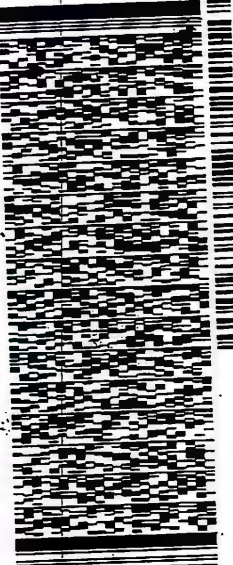
Environment Testing
TestAmerica

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTUAL WT: 60.95 LB
CAD: BS9116/CAT E63510
BILL RECEIPT EN

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 968-7068
REF: ACC PLT WANSLEY



J21 020121101 0Y

MPS# 3 of 6
0263 5220 7116 6464

Mstr# 5220 7116 6442

X0 AGCA

Uncorrected Temp
Thermometer ID
4.2 °C

GF Initials

PT-W-SR-304-efedline-11/8/18

SATURDAY 12:00P
PRIORITY OVERNIGHT

PA-US 15238
PIT



180-134763 Waybill

eurofins

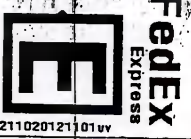
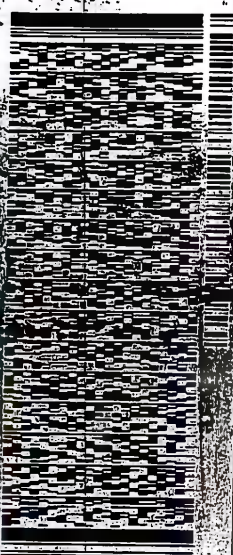
Environment Testing
TestAmerica

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTUAL WT: 50.95 LB
CAD: BS9116/CAT E63510
BILL RECEIPT EN

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 968-7068
REF: ACC PLT WAN



MA10121020112F

TRK# 1 of 6
0201 5220 7116 6442

MASTER

X0

Uncorrected Temp
Thermometer ID
4.4 °C

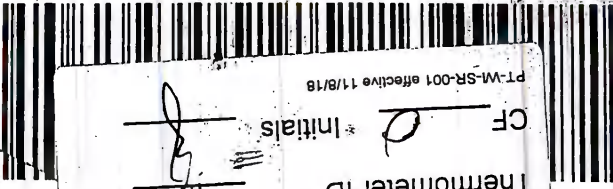
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PT-W-SR-304-efedline-11/8/18

SATURDAY 12:00P
PRIORITY OVERNIGHT

PA-US 15238
PIT

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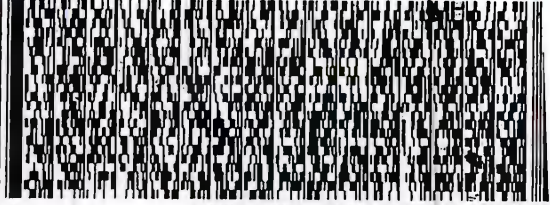
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PT-WI-SR-001 effective 11/8/18
2.9
PA

15238
PIT

XO AGGA

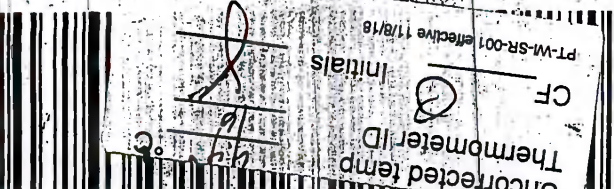
MPS# 5220 7116 6475
Mstr# 5220 7116 6442
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT



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Express

10 SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
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PITTSBURGH PA 15238
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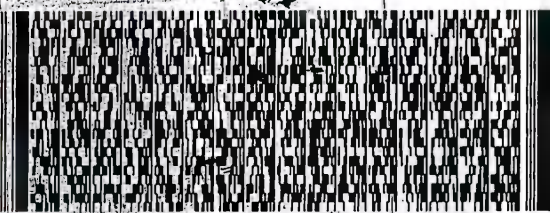
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Thermometer ID
CF Initials
PT-WI-SR-001 effective 11/8/18

15238
PIT PA-US

XO AGGA

MPS# 5220 7116 6486
Mstr# 5220 7116 6442
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT



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Express

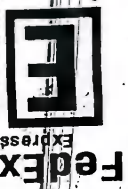
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301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY

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UNCORRECTED TEMP °C 22.1
 THERMOMETER ID
 INITIALS **6**
 CF
 PT-WI-SR-001 effective 11/8/18

XO AGCA
 MRS# 5220 7116 6442
 MSTR# 5220 7116 8442
 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT
 PA-US
15238 PIT


 421101UW

TO SAMPLE RECEIVING
 EUROFINS TESTAMERICA PITTSBURGH
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 RIDC PARK
 PITTSBURGH PA 15238
 REF: ACC PLT WANSLEY
 (412) 963-7068

UNITED STATES US
 570C3, 4508R/5E/

UNCORRECTED TEMP °C 22.9
 THERMOMETER ID
 INITIALS **Q**
 CF
 PT-WI-SR-001 effective 11/8/18

XO AGCA
 MRS# 5220 7116 6497
 MSTR# 5220 7116 6442
 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT
 PA-US
15238 PIT


 421101UW

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UNITED STATES US
 570C3, 4508R/5E/

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180-134765 Waybill



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 800
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING: 60354LB
CAD: 859116CAF3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

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REF: ACC PLT WANSLEY



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SATURDAY 12:00P
PRIORITY OVERNIGHT

3 0 1 6

MPS# 5220 7116 6464

0201

Mstr# 5220 7116 6442

XO AGGA

15238
PA-US
PIT

Uncorrected temp 4.2 °C

Thermometer ID 16

CF Q Initials Q

1W-SR-001 effective 11/8/18

6/23/2022 13

Part# 159469-43/1TWEXP 09/22

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6215 REGENCY PARKWAY NH
SUITE 800
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING: 60354LB
CAD: 859116CAF3510

BILL RECIPIENT

SAMPLE RECIEVING
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SATURDAY 12:00P
PRIORITY OVERNIGHT

1 0 1 6

TRK# 5220 7116 6442

0201

XO
Uncorrected temp 4.4 °C
Thermometer ID 16

15238
PA-US
PIT

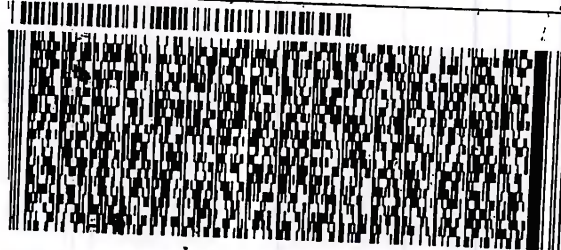
CF Q Initials Q

PT-W-SR-001 effective 11/8/18

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13

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

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4 of 6
MPS# 5220 7116 6475
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

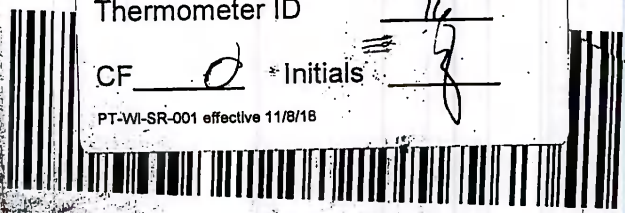
15238
PIT

Uncorrected temp
Thermometer ID

2.9 °C

CF o Initials g

PT-WI-SR-001 effective 11/8/18



TO SAMPLE RECEIVING
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RIDC PARK
PITTSBURGH PA 15238

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5 of 6
MPS# 5220 7116 6486
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

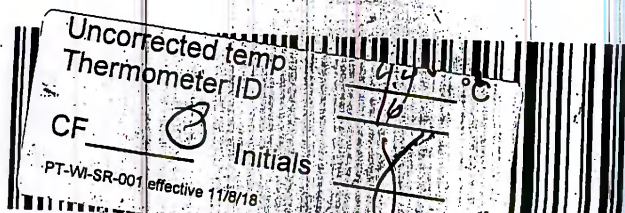
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PIT

Uncorrected temp
Thermometer ID

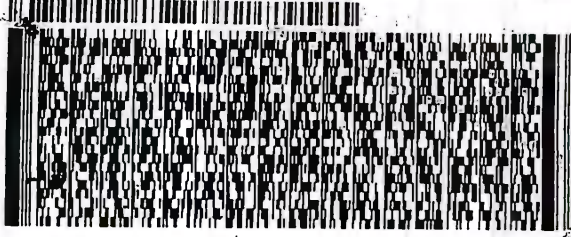
2.9 °C

CF o Initials g

PT-WI-SR-001 effective 11/8/18



UNITED STATES US
 TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
 (412) 883-7058
 REF: ACC PLT WANSLEY

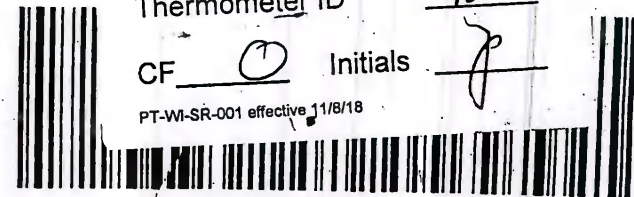


6 of 6
 MPS# 0263 **5220 7116 6497**
 Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
 PIT

Uncorrected temp 23 °C
 Thermometer ID 16

CF 0 Initials J



UNITED STATES US
 TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
 (412) 883-7058
 REF: ACC PLT WANSLEY

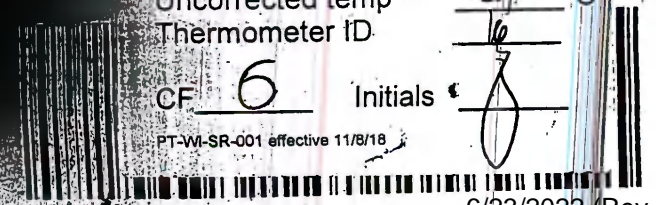


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 Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
 PA-US PIT

Uncorrected temp 21 °C
 Thermometer ID 16

CF 6 Initials J



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TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



180-134766 Waybill

4 91 0
MPS# 5220 7116 6475
Istr# 5220 7116 6442

0201

XO AGCA

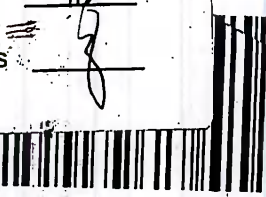
15238
PIT

Uncorrected temp
Thermometer ID

29 °C

CF o * Initials g

PT-WI-SR-001 effective 11/8/18



UNITED STATES US
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



5 of 6
MPS# 5220 7116 6486
Istr# 5220 7116 6442

0201

XO AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

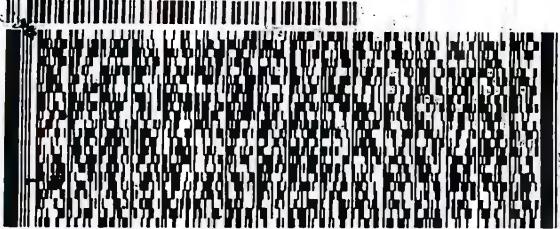
29 °C

CF o * Initials g

PT-WI-SR-001 effective 11/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



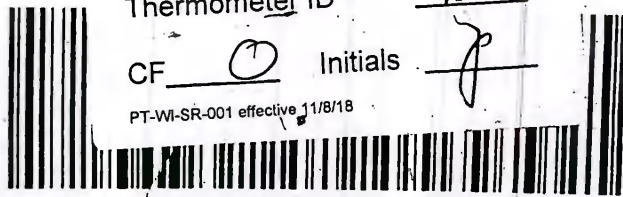
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Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

Uncorrected temp 23 °C
Thermometer ID 16

CF 0 Initials J

PT-WI-SR-001 effective 1/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



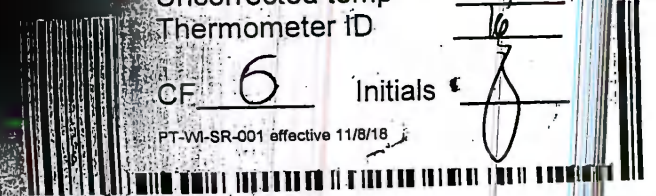
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MPS# 0263 **5220 7116 6453**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 21 °C
Thermometer ID 16

CF 6 Initials J

PT-WI-SR-001 effective 11/8/18



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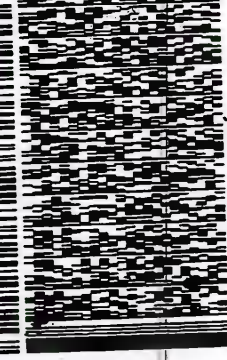
ORIGIN ID: LLYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

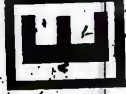
BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS-TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



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SATURDAY 12:00P
PRIORITY OVERNIGHT

3 01 6
MPS# 5220 7116 6464

Mstr# 5220 7116 6442 [0201]

XO AGGA

15238
PA-US
PIT

Uncorrected temp 4.2 °C
Thermometer ID 16

CF 0 Initials [Signature]

PT-WM-SR-001 effective 11/8/18



6/23/2022 (R)

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ORIGIN ID: LLYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS-TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

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SATURDAY 12:00P
PRIORITY OVERNIGHT

1 01 6
TRM# 5220 7116 6442

XO
MASTER 5220 7116 6442
Uncorrected temp
Thermometer ID 16

15238
PA-US
PIT

CF 0 Initials [Signature]
PT-WM-SR-001 effective 11/8/18



Part #159469-434 TW EXP 09/22

52063/908R/54

J21 020121 010V

12
13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-1

Login Number: 134761

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-1

Login Number: 134763

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-1

Login Number: 134765

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-1

Login Number: 134766

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-134761-2
Client Project/Site: Wansley Ash Pond

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/12/2022 1:03:06 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	16
QC Sample Results	37
QC Association Summary	41
Chain of Custody	43
Receipt Checklists	64

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Job ID: 180-134761-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-134761-2

Comments

No additional comments.

Receipt

The samples were received on 3/5/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the coolers at receipt time were 2.1° C, 2.9° C, 2.9° C, 4.2° C, 4.4° C and 4.4° C.

RAD

Methods 903.0, 9315: Radium 226 Batch 160-554557:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-12 (180-134761-1), (LCS 160-554557/1-A) and (MB 160-554557/13-A)

Method 9315: Radium 226 Batch 160-554529:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-19 (180-134763-2), WGWC-10 (180-134763-5), WGWC-24 (180-134763-6), WGWC-21 (180-134763-7), WGWC-23 (180-134763-9), WGWC-17 (180-134763-10), Dup-3 (180-134763-11), DUP-2 (180-134765-1), WGWC-15 (180-134765-2), WGWC-16 (180-134765-3), WGWA-7 (180-134765-4), WGWC-13 (180-134765-5), WGWC-14A (180-134765-6), WGWC-11 (180-134765-7), FB-2 (180-134765-8), WGWC-25 (180-134765-9), WGWC-20 (180-134765-10), FB-3 (180-134765-11), EB-3 (180-134766-1), WGWC-22 (180-134766-2), (LCS 160-554529/1-A), (LCSD 160-554529/2-A) and (MB 160-554529/23-A)

Methods 904.0, 9320: Radium-228 batch 558078

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-12 (180-134761-1), (LCS 160-558078/1-A) and (MB 160-558078/13-A)

Method 9320: Radium-228 batch 554539

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: Dup-3 (180-134763-11). Analytical results are reported with the detection limit achieved.

Method 9320: Radium-228 batch 554539

The laboratory control sample recovery is outside the upper QC limit of (add QC limit) indicating a potential positive bias for that analyte. This analyte was not observed above the RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. (LCS 160-554539/1-A)

Method 9320: Radium-228 batch 554539

The LCSD recovered at (134%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCSD are not from this agency and are therefore held to our in-house statistical limits of (61-138%) per method requirements. The LCSD passes, no further action is required (LCSD 160-554539/2-A)

Method 9320: Radium-228 batch 554539

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-19 (180-134763-2), WGWC-10 (180-134763-5), WGWC-23 (180-134763-9), Dup-3 (180-134763-11), DUP-2 (180-134765-1), WGWC-16 (180-134765-3), WGWA-7 (180-134765-4), WGWC-13 (180-134765-5), WGWC-14A (180-134765-6), WGWC-11 (180-134765-7), FB-2 (180-134765-8), WGWC-25 (180-134765-9), WGWC-20 (180-134765-10), FB-3 (180-134765-11), EB-3 (180-134766-1), (LCS 160-554539/1-A), (LCSD 160-554539/2-A) and (MB 160-554539/23-A)

Methods 904.0, 9320: Radium-228 batch 559120

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Job ID: 180-134761-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-24 (180-134763-6), WGWC-21 (180-134763-7), WGWC-17 (180-134763-10), WGWC-15 (180-134765-2), WGWC-22 (180-134766-2), (LCS 160-559120/1-A), (LCSD 160-559120/2-A) and (MB 160-559120/10-A)

Method PrecSep_0: Radium-228 Prep Batch 160-554539

The following samples were prepared at a reduced aliquot due to Matrix: WGWC-17 (180-134763-10) and Dup-3 (180-134763-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-559120

The following samples were prepared at a reduced aliquot due to Matrix: WGWC-17 (180-134763-10). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-554529

The following samples were prepared at a reduced aliquot due to Matrix: WGWC-17 (180-134763-10) and Dup-3 (180-134763-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134761-1	WGWC-12	Water	03/04/22 14:30	03/05/22 09:00
180-134763-2	WGWC-19	Water	03/03/22 14:05	03/05/22 09:00
180-134763-5	WGWC-10	Water	03/03/22 11:52	03/05/22 09:00
180-134763-6	WGWC-24	Water	03/03/22 14:06	03/05/22 09:00
180-134763-7	WGWC-21	Water	03/03/22 16:27	03/05/22 09:00
180-134763-9	WGWC-23	Water	03/04/22 09:47	03/05/22 09:00
180-134763-10	WGWC-17	Water	03/04/22 11:14	03/05/22 09:00
180-134763-11	Dup-3	Water	03/04/22 00:01	03/05/22 09:00
180-134765-1	DUP-2	Water	03/03/22 00:01	03/05/22 09:00
180-134765-2	WGWC-15	Water	03/03/22 13:40	03/05/22 09:00
180-134765-3	WGWC-16	Water	03/03/22 14:52	03/05/22 09:00
180-134765-4	WGWA-7	Water	03/03/22 11:52	03/05/22 09:00
180-134765-5	WGWC-13	Water	03/03/22 13:13	03/05/22 09:00
180-134765-6	WGWC-14A	Water	03/03/22 14:07	03/05/22 09:00
180-134765-7	WGWC-11	Water	03/03/22 15:30	03/05/22 09:00
180-134765-8	FB-2	Water	03/03/22 15:15	03/05/22 09:00
180-134765-9	WGWC-25	Water	03/04/22 10:50	03/05/22 09:00
180-134765-10	WGWC-20	Water	03/04/22 12:11	03/05/22 09:00
180-134765-11	FB-3	Water	03/04/22 11:50	03/05/22 09:00
180-134766-1	EB-3	Water	03/04/22 13:15	03/05/22 09:00
180-134766-2	WGWC-22	Water	03/04/22 13:50	03/05/22 09:00



Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.36 mL	1.0 g	554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	9315		1			558254	04/01/22 07:50	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			995.79 mL	1.0 g	558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	9320		1			558535	04/05/22 18:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			558887	04/06/22 12:50	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.61 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:54	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.61 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:12	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.42 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:54	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.42 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:12	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.52 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:55	CLP	TAL SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.08 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:01	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.50 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.68 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:01	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.66 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.66 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:12	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			758.72 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.85 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:01	CLP	TAL SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-17

Date Collected: 03/04/22 11:14

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL

Client Sample ID: Dup-3

Date Collected: 03/04/22 00:01

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			751.72 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			751.72 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:13	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-2

Date Collected: 03/03/22 00:01

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.82 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			996.82 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:13	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Date Collected: 03/03/22 13:40

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.57 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:57	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			998.75 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:02	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-134765-3

Date Collected: 03/03/22 14:52

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1006.31 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:57	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1006.31 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:14	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.37 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.37 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:14	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.76 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.76 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:14	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.65 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1003.65 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.75 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			998.75 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.62 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:50	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.62 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.13 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.13 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.91 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			998.91 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.76 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.76 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:16	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.85 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:52	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.85 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:16	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.22 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1007.47 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:02	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

LPS = Lauren Szostak

Batch Type: Analysis

CAH = Chris Hough

CLP = Cassandra Park

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00522	U	0.103	0.103	1.00	0.210	pCi/L	03/10/22 13:28	04/01/22 07:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/10/22 13:28	04/01/22 07:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.413		0.222	0.226	1.00	0.331	pCi/L	03/31/22 13:15	04/05/22 18:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					03/31/22 13:15	04/05/22 18:10	1
Y Carrier	80.7		40 - 110					03/31/22 13:15	04/05/22 18:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.408		0.245	0.248	2.00	0.331	pCi/L		04/06/22 12:50	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0265	U	0.125	0.125	1.00	0.254	pCi/L	03/10/22 09:47	04/01/22 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 09:47	04/01/22 07:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.936	*	0.262	0.276	1.00	0.309	pCi/L	03/10/22 11:00	03/30/22 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 11:00	03/30/22 15:12	1
Y Carrier	83.7		40 - 110					03/10/22 11:00	03/30/22 15:12	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.909		0.290	0.303	2.00	0.309	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0388	U	0.134	0.134	1.00	0.247	pCi/L	03/10/22 09:47	04/01/22 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					03/10/22 09:47	04/01/22 07:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.549	*	0.289	0.293	1.00	0.434	pCi/L	03/10/22 11:00	03/30/22 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					03/10/22 11:00	03/30/22 15:12	1
Y Carrier	82.6		40 - 110					03/10/22 11:00	03/30/22 15:12	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.587		0.319	0.322	2.00	0.434	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.287		0.191	0.193	1.00	0.272	pCi/L	03/10/22 09:47	04/01/22 07:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					03/10/22 09:47	04/01/22 07:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.606		0.263	0.268	1.00	0.369	pCi/L	04/07/22 13:33	04/11/22 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					04/07/22 13:33	04/11/22 16:01	1
Y Carrier	85.2		40 - 110					04/07/22 13:33	04/11/22 16:01	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.893		0.325	0.330	2.00	0.369	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.540		0.218	0.223	1.00	0.220	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.771	U	0.516	0.520	1.00	0.801	pCi/L	04/07/22 13:33	04/11/22 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.2		40 - 110					04/07/22 13:33	04/11/22 16:01	1
Y Carrier	85.2		40 - 110					04/07/22 13:33	04/11/22 16:01	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.31		0.560	0.566	2.00	0.801	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0264	U	0.191	0.191	1.00	0.382	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	42.9		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.410	U *	0.513	0.515	1.00	0.851	pCi/L	03/10/22 11:00	03/30/22 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	42.9		40 - 110					03/10/22 11:00	03/30/22 15:12	1
Y Carrier	80.4		40 - 110					03/10/22 11:00	03/30/22 15:12	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.437	U	0.547	0.549	2.00	0.851	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131	U	0.155	0.155	1.00	0.253	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.442	U	0.339	0.342	1.00	0.535	pCi/L	04/07/22 13:33	04/11/22 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/07/22 13:33	04/11/22 16:01	1
Y Carrier	83.4		40 - 110					04/07/22 13:33	04/11/22 16:01	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.573		0.373	0.375	2.00	0.535	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: Dup-3
Date Collected: 03/04/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0639	U	0.189	0.190	1.00	0.367	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.2		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.691	U G *	0.625	0.629	1.00	1.01	pCi/L	03/10/22 11:00	03/30/22 15:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.2		40 - 110					03/10/22 11:00	03/30/22 15:13	1
Y Carrier	81.5		40 - 110					03/10/22 11:00	03/30/22 15:13	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.755	U	0.653	0.657	2.00	1.01	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: DUP-2
Date Collected: 03/03/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-1
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.124	0.125	1.00	0.192	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.568	*	0.294	0.299	1.00	0.442	pCi/L	03/10/22 11:00	03/30/22 15:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 11:00	03/30/22 15:13	1
Y Carrier	83.0		40 - 110					03/10/22 11:00	03/30/22 15:13	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.697		0.319	0.324	2.00	0.442	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-134765-2

Date Collected: 03/03/22 13:40

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0926	U	0.154	0.154	1.00	0.271	pCi/L	03/10/22 09:47	04/01/22 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.4		40 - 110					03/10/22 09:47	04/01/22 07:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.265	U	0.247	0.248	1.00	0.397	pCi/L	04/07/22 13:33	04/11/22 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/07/22 13:33	04/11/22 16:02	1
Y Carrier	82.6		40 - 110					04/07/22 13:33	04/11/22 16:02	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.358	U	0.291	0.292	2.00	0.397	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-134765-3

Date Collected: 03/03/22 14:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.143	U	0.113	0.114	1.00	0.156	pCi/L	03/10/22 09:47	04/01/22 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					03/10/22 09:47	04/01/22 07:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.430	*	0.244	0.247	1.00	0.362	pCi/L	03/10/22 11:00	03/30/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					03/10/22 11:00	03/30/22 15:14	1
Y Carrier	82.2		40 - 110					03/10/22 11:00	03/30/22 15:14	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.573		0.269	0.272	2.00	0.362	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0975	U	0.110	0.110	1.00	0.176	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.318	U *	0.249	0.251	1.00	0.394	pCi/L	03/10/22 11:00	03/30/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/10/22 11:00	03/30/22 15:14	1
Y Carrier	83.0		40 - 110					03/10/22 11:00	03/30/22 15:14	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.415		0.272	0.274	2.00	0.394	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0736	U	0.101	0.101	1.00	0.170	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.548	*	0.246	0.252	1.00	0.348	pCi/L	03/10/22 11:00	03/30/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110					03/10/22 11:00	03/30/22 15:14	1
Y Carrier	82.2		40 - 110					03/10/22 11:00	03/30/22 15:14	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.621		0.266	0.271	2.00	0.348	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.374		0.161	0.165	1.00	0.170	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.582	*	0.240	0.246	1.00	0.332	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	84.5		40 - 110					03/10/22 11:00	03/30/22 15:15	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.956		0.289	0.296	2.00	0.332	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0360	U	0.0859	0.0860	1.00	0.162	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.586	*	0.250	0.256	1.00	0.345	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	81.1		40 - 110					03/10/22 11:00	03/30/22 15:15	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.622		0.264	0.270	2.00	0.345	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0214	U	0.0848	0.0848	1.00	0.190	pCi/L	03/10/22 09:47	04/01/22 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 09:47	04/01/22 09:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.418	*	0.261	0.264	1.00	0.398	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	80.0		40 - 110					03/10/22 11:00	03/30/22 15:15	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.396	U	0.274	0.277	2.00	0.398	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.416		0.227	0.230	1.00	0.307	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.403	U *	0.300	0.302	1.00	0.468	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	80.7		40 - 110					03/10/22 11:00	03/30/22 15:15	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.818		0.376	0.380	2.00	0.468	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170	U	0.166	0.167	1.00	0.263	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.756	*	0.287	0.296	1.00	0.386	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	80.4		40 - 110					03/10/22 11:00	03/30/22 15:15	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.925		0.332	0.340	2.00	0.386	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0426	U	0.120	0.120	1.00	0.219	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0404	U *	0.178	0.178	1.00	0.333	pCi/L	03/10/22 11:00	03/30/22 15:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 11:00	03/30/22 15:16	1
Y Carrier	81.9		40 - 110					03/10/22 11:00	03/30/22 15:16	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00221	U	0.215	0.215	2.00	0.333	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178	U	0.137	0.138	1.00	0.197	pCi/L	03/10/22 09:47	04/01/22 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					03/10/22 09:47	04/01/22 09:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.244	U *	0.282	0.283	1.00	0.464	pCi/L	03/10/22 11:00	03/30/22 15:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					03/10/22 11:00	03/30/22 15:16	1
Y Carrier	81.1		40 - 110					03/10/22 11:00	03/30/22 15:16	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.314	0.315	2.00	0.464	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.26		0.466	0.551	1.00	0.207	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.31		0.480	0.623	1.00	0.352	pCi/L	04/07/22 13:33	04/11/22 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/07/22 13:33	04/11/22 16:02	1
Y Carrier	81.9		40 - 110					04/07/22 13:33	04/11/22 16:02	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	7.57		0.669	0.832	2.00	0.352	pCi/L		04/12/22 12:16	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-554529/23-A
Matrix: Water
Analysis Batch: 558304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554529

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.007245	U	0.0803	0.0803	1.00	0.172	pCi/L	03/10/22 09:47	04/01/22 09:52	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	105		40 - 110					03/10/22 09:47	04/01/22 09:52	1

Lab Sample ID: LCS 160-554529/1-A
Matrix: Water
Analysis Batch: 558255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554529

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.598		1.14	1.00	0.214	pCi/L	85	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	91.1		40 - 110					03/10/22 09:47	04/01/22 09:52

Lab Sample ID: LCSD 160-554529/2-A
Matrix: Water
Analysis Batch: 558304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 554529

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	8.666		1.03	1.00	0.185	pCi/L	76	75 - 125	0.43	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	100		40 - 110					03/10/22 13:28	04/01/22 07:50	1	

Lab Sample ID: MB 160-554557/13-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554557

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03075	U	0.134	0.134	1.00	0.251	pCi/L	03/10/22 13:28	04/01/22 07:50	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	103		40 - 110					03/10/22 13:28	04/01/22 07:50	1

Lab Sample ID: LCS 160-554557/1-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554557

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	8.535		1.02	1.00	0.217	pCi/L	75	75 - 125

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-554557/1-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554557

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	105		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-554539/23-A
Matrix: Water
Analysis Batch: 558029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554539

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6702		0.266	0.273	1.00	0.374	pCi/L	03/10/22 11:00	03/30/22 15:10	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110	03/10/22 11:00	03/30/22 15:10	1
Y Carrier	83.0		40 - 110	03/10/22 11:00	03/30/22 15:10	1

Lab Sample ID: LCS 160-554539/1-A
Matrix: Water
Analysis Batch: 557856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554539

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.875	1.571	*	0.393	1.00	0.428	pCi/L	180	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.1		40 - 110
Y Carrier	78.5		40 - 110

Lab Sample ID: LCSD 160-554539/2-A
Matrix: Water
Analysis Batch: 557856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 554539

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.875	1.175		0.315	1.00	0.348	pCi/L	134	75 - 125	0.56	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	81.1		40 - 110

Lab Sample ID: MB 160-558078/13-A
Matrix: Water
Analysis Batch: 558535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558078

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3960		0.213	0.216	1.00	0.317	pCi/L	03/31/22 13:15	04/05/22 18:10	1

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-558078/13-A
Matrix: Water
Analysis Batch: 558535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558078

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	98.3		40 - 110	03/31/22 13:15	04/05/22 18:10	1
Y Carrier	81.5		40 - 110	03/31/22 13:15	04/05/22 18:10	1

Lab Sample ID: LCS 160-558078/1-A
Matrix: Water
Analysis Batch: 558534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558078

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	100		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: MB 160-559120/10-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559120

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	97.8		40 - 110	04/07/22 14:49	04/11/22 16:02	1
Y Carrier	81.1		40 - 110	04/07/22 14:49	04/11/22 16:02	1

Lab Sample ID: LCS 160-559120/1-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559120

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	108		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: LCSD 160-559120/2-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559120

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-559120/2-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559120

<i>Carrier</i>	<i>LCSD</i> <i>%Yield</i>	<i>LCSD</i> <i>Qualifier</i>	<i>Limits</i>
Ba Carrier	107		40 - 110
Y Carrier	90.8		40 - 110

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Rad

Prep Batch: 554529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	PrecSep-21	
180-134763-5	WGWC-10	Total/NA	Water	PrecSep-21	
180-134763-6	WGWC-24	Total/NA	Water	PrecSep-21	
180-134763-7	WGWC-21	Total/NA	Water	PrecSep-21	
180-134763-9	WGWC-23	Total/NA	Water	PrecSep-21	
180-134763-10	WGWC-17	Total/NA	Water	PrecSep-21	
180-134763-11	Dup-3	Total/NA	Water	PrecSep-21	
180-134765-1	DUP-2	Total/NA	Water	PrecSep-21	
180-134765-2	WGWC-15	Total/NA	Water	PrecSep-21	
180-134765-3	WGWC-16	Total/NA	Water	PrecSep-21	
180-134765-4	WGWA-7	Total/NA	Water	PrecSep-21	
180-134765-5	WGWC-13	Total/NA	Water	PrecSep-21	
180-134765-6	WGWC-14A	Total/NA	Water	PrecSep-21	
180-134765-7	WGWC-11	Total/NA	Water	PrecSep-21	
180-134765-8	FB-2	Total/NA	Water	PrecSep-21	
180-134765-9	WGWC-25	Total/NA	Water	PrecSep-21	
180-134765-10	WGWC-20	Total/NA	Water	PrecSep-21	
180-134765-11	FB-3	Total/NA	Water	PrecSep-21	
180-134766-1	EB-3	Total/NA	Water	PrecSep-21	
180-134766-2	WGWC-22	Total/NA	Water	PrecSep-21	
MB 160-554529/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554529/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-554529/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 554539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	PrecSep_0	
180-134763-5	WGWC-10	Total/NA	Water	PrecSep_0	
180-134763-9	WGWC-23	Total/NA	Water	PrecSep_0	
180-134763-11	Dup-3	Total/NA	Water	PrecSep_0	
180-134765-1	DUP-2	Total/NA	Water	PrecSep_0	
180-134765-3	WGWC-16	Total/NA	Water	PrecSep_0	
180-134765-4	WGWA-7	Total/NA	Water	PrecSep_0	
180-134765-5	WGWC-13	Total/NA	Water	PrecSep_0	
180-134765-6	WGWC-14A	Total/NA	Water	PrecSep_0	
180-134765-7	WGWC-11	Total/NA	Water	PrecSep_0	
180-134765-8	FB-2	Total/NA	Water	PrecSep_0	
180-134765-9	WGWC-25	Total/NA	Water	PrecSep_0	
180-134765-10	WGWC-20	Total/NA	Water	PrecSep_0	
180-134765-11	FB-3	Total/NA	Water	PrecSep_0	
180-134766-1	EB-3	Total/NA	Water	PrecSep_0	
MB 160-554539/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-554539/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-554539/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 554557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	PrecSep-21	
MB 160-554557/13-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554557/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Rad

Prep Batch: 558078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	PrecSep_0	
MB 160-558078/13-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-558078/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 559120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-6	WGWC-24	Total/NA	Water	PrecSep_0	
180-134763-7	WGWC-21	Total/NA	Water	PrecSep_0	
180-134763-10	WGWC-17	Total/NA	Water	PrecSep_0	
180-134765-2	WGWC-15	Total/NA	Water	PrecSep_0	
180-134766-2	WGWC-22	Total/NA	Water	PrecSep_0	
MB 160-559120/10-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-559120/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-559120/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

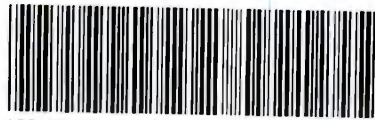
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244- ATLANTA



Client Information		Sampler: <u>T. Johnson</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:									
Client Contact: SCS Contacts		Phone: <u>770-594-5898</u>		E-Mail: shali.brown@eurofinset.com				Page:									
Company: GA Power				Analysis Requested				Job #:									
Address: 241 Ralph McGill Blvd SE		Due Date Requested:						Preservation Codes:									
City: Atlanta		TAT Requested (days):		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> App III Metals: B, Ca <input type="checkbox"/> Cl, F, SO & TDS (EPA 300 & SM 2540C) <input type="checkbox"/> App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl <input type="checkbox"/> Radium 226 & 228 (SW-846 9316/9320) <input type="checkbox"/> Major Ions - Bicarbonate Alkalinity, Total Alkalinity <input type="checkbox"/> Major Ions - Sulfide <input type="checkbox"/> Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium <input type="checkbox"/>		Total Number of containers:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)									
State, Zip: GA, 30308		PO #:								Other:							
Phone: 404-506-7116(Tel)		WO #:		Project #:		SSOW#:		Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed									
Email: SCS Contacts		Project #:		SSOW#:		SSOW#:											
Project Name: CCR - Plant Wansley Ash Pond		Project #:		SSOW#:		SSOW#:											
Site:		SSOW#:		SSOW#:		SSOW#:											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 & 228 (SW-846 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	Special Instructions/Note:	
																Preservation Code:	
<u>WGWC-12</u>		<u>3/4/22</u>	<u>1430</u>	G	Water											5	pH= <u>6.79</u>
				G	Water												pH=
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180-134761 Chain of Custody

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>3-4-22/1706</u>	Company: <u>ACC</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/4/22 17:06</u>	Company: <u>ETA</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>3/4/22 17:00</u>	Company: <u>ETO</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/5/22 900</u>	Company: <u>ETA/PIA</u>
Relinquished by: <u>[Signature]</u>	Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:			

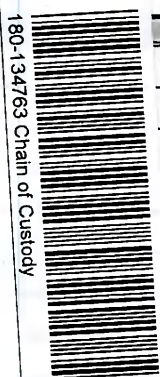
Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244- ATLANTA

Environment Testing
America

Client Information Client Contact: <u>Johnson, Shali</u> SCS Contacts: <u>770-594-5998</u> Company: <u>GA Power</u> Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>shali.brown@eurofinset.com</u> Project Name: <u>CCR - Plant Wansley Ash Pond</u> Site:		Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u> Carrier Tracking No(s): COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: <u>18019922</u> SSOW#:		Analysis Requested Field Filtered Sample (Yes or No): Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2540C) App IV Metals (EPA 6020/470): Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,Li,Hg,Mo,Se,Ti Radium 226 & 228 (SW-846 9316/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix Preservation Code:		Total Number of Containers Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed	
180-134763 Chain of Custody 		WGWA-18 3/3/22 1240 G Water ✓✓✓✓✓✓✓✓✓✓ 5 pH= 5.94	
		WGW-19 3/3/22 1405 G Water ✓✓✓✓✓✓✓✓✓✓ 5 pH= 6.69	
		WGW-8 3/3/22 1645 G Water ✓✓✓✓✓✓✓✓✓✓ 5 pH= 5.21	
		WGW-9 3/3/22 1525 G Water ✓✓✓✓✓✓✓✓✓✓ 5 pH= 5.86	
		WGW-10 3/3/22 1152 G Water ✓✓✓✓✓✓✓✓✓✓ 5 pH= 6.36	
		WGW-24 3/3/22 1406 G Water ✓✓✓✓✓✓✓✓✓✓ 7 pH= 4.39	
		WGW-21 3/3/22 1627 G Water ✓✓✓✓✓✓✓✓✓✓ 5 pH= 6.88	
		EB-2 3/3/22 1615 G Water ✓✓✓✓✓✓✓✓✓✓ 5 pH= —	
		WGW-23 3/4/22 0947 G Water ✓✓✓✓✓✓✓✓✓✓ 7 pH= 5.74 (Extra Prod)	
WGW-17 3/4/22 1114 G Water ✓✓✓✓✓✓✓✓✓✓ 7 pH= 6.21			
Dup-3 3/4/22 — G Water ✓✓✓✓✓✓✓✓✓✓ 7 pH= —			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____		Relinquished by: _____ Date/Time: <u>3-4-22/1706</u> Company: <u>ACC</u> Received by: _____ Date/Time: <u>3/4/22 12:00</u> Company: <u>ETN</u>	
Relinquished by: _____ Date/Time: <u>3/4/22 11:00</u> Company: <u>ETN</u> Received by: _____ Date/Time: <u>3/5/22 900</u> Company: <u>ETN</u>		Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____	
Custody Seals Intact: <input type="checkbox"/> Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____		Δ Yes Δ No	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environment Testing
America

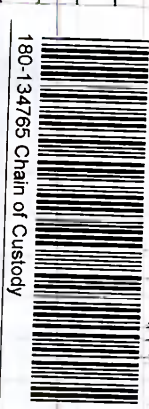
244-ATLANTA

Client Information	Sampler: <i>S. Boyer / H. Auld</i>	Lab PM: Brown, Shali	Center Tracking No.:	COC No.:
Client Contact	Phone: <i>770-594-5998</i>	E-Mail: <i>shali.brown@eurofinset.com</i>		Page:
SCS Contacts				

Company: GA Power	Analysis Requested			Job #:
-------------------	---------------------------	--	--	--------

Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Field Filtered Sample (Yes or No) Perform (MS/MS) (Yes/No) App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2640C) App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-546 9316/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
City: Atlanta	TAT Requested (days):			Total Number of containers Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
State, Zip: GA, 30308	PO #:			
Phone: 404-506-7116(Tel)	WO #:			
Email: SCS Contacts	Project #: 18019922			
Project Name: CCR - Plant Wansley Ash Pond	SSOW#:			
Site:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform (MS/MS) (Yes/No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2640C)	App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 & 228 (SW-546 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
Dup-2	3/3/22		G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= N/A
w6wc-15	3/3/22	1340	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 7.61
w6wc-16	3/3/22	1452	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.22
w6wa-7	3/3/22	1152	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.49
w6wc-13	3/3/22	1313	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 6.31
w6wc-14A	3/3/22	1407	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.40
w6wc-11	3/3/22	1530	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.59
FB-2	3/3/22	1515	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= N/A
w6wc-25	3/4/22	1050	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.21
w6wc-20	3/4/22	1211	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.23
FB-3	3/4/22	1250	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= N/A



Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
--	---

Deliverable Requested: I, II, III, IV, Other (specify) _____ Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: <i>[Signature]</i>	Date/Time: <i>3/4/22 144</i>	Company: <i>ACC</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3-4-22/1440</i>	Company: <i>ACC</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3-4-22/1706</i>	Company: <i>ACC</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3/4/22 17:06</i>	Company: <i>ETA</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3/4/22 17:50</i>	Company: <i>ETA</i>	Received by: <i>[Signature]</i>	Date/Time: <i>3/5/22 900</i>	Company: <i>BBAT P/B</i>

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

Client Information		Sampler: <i>J. Brown</i>	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No:										
Client Contact: SCS Contacts		Phone: 770-591-5947	E-Mail: shali.brown@eurofinset.com	Page:											
Company: GA Power	Analysis Requested				Job #:										
Address: 241 Ralph McGill Blvd SE					Preservation Codes:										
City: Atlanta	Due Date Requested:	Field Filtered Sample (Yes or No)	Performs (MS/MSD) (Yes or No)	App III Metals: B, Ca	CI, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
State, Zip: GA, 30308	TAT Requested (days):													Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed	
Phone: 404-506-7116(Tel)	PO #:													Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)
Email: SCS Contacts	WO #:													Preservation Code:	
Project Name: CCR - Plant Wansley Ash Pond	Project #: 18019922													Sample Date	Sample Time
Site:	SSOW#:														

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performs (MS/MSD) (Yes or No)	App III Metals: B, Ca	CI, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	pH=
EB-3	3/4/22	1315	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	N/A
WGWC-22	3/4/22	1350	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	5.34
			G	Water											
			G	Water											
			G	Water											
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			G	Water											



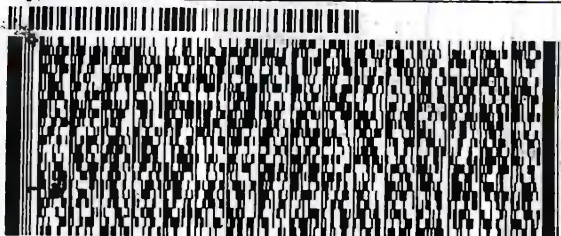
180-134766 Chain of Custody

Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Radiological
Deliverable Requested: I, II, III, IV, Other (specify)			<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Empty Kit Relinquished by: <i>[Signature]</i>			Special Instructions/QC Requirements:		
Date:	Time:	Method of Shipment:	Date/Time: 3-4-22 1440		
Relinquished by: <i>[Signature]</i>	Date/Time: 3-4-22 1440	Company: ACC	Received by: <i>[Signature]</i>	Date/Time: 3-4-22 1440	Company: ACC
Relinquished by: <i>[Signature]</i>	Date/Time: 3-4-22 1706	Company: ACC	Received by: <i>[Signature]</i>	Date/Time: 3/4/22 17:00	Company: ETX
Relinquished by: <i>[Signature]</i>	Date/Time: 3/4/22 12:10	Company: ER	Received by: <i>[Signature]</i>	Date/Time: 3/5/22 900	Company: ETR/A
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: <i>314122</i>	Cooler Temperature(s)°C and Other Remarks:			

UNITED STATES US

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC PLT WANSLEY



FedEx Express



6 of 6

MPS# 5220 7116 6497

Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

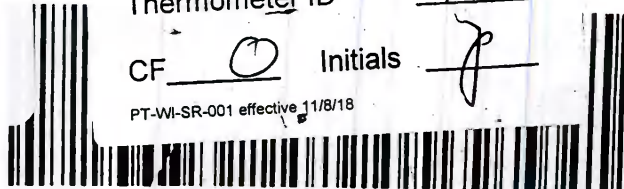
15238
PIT

Uncorrected temp
Thermometer ID

29 °C
16

CF ⓪ Initials J

PT-WI-SR-001 effective 11/8/18

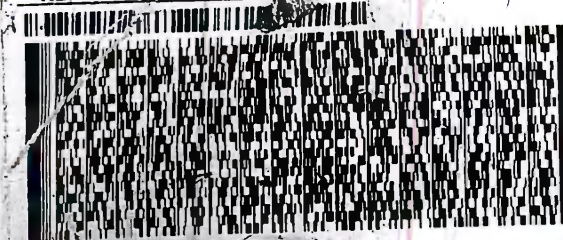


180-134761 Waybill

UNITED STATES US

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC PLT WANSLEY



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2 of 6

MPS# 5220 7116 6453

Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PIT

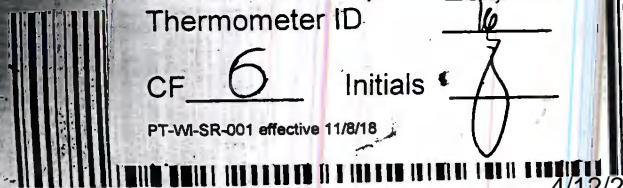
PA-US

Uncorrected temp
Thermometer ID

27 °C
16

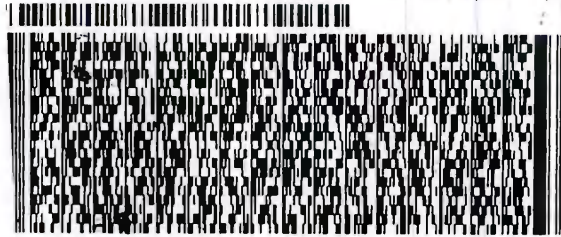
CF 6 Initials J

PT-WI-SR-001 effective 11/8/18



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TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY

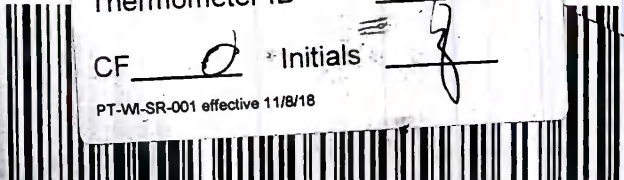


4 of 6
IPS# 5220 7116 6475
263
Istr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

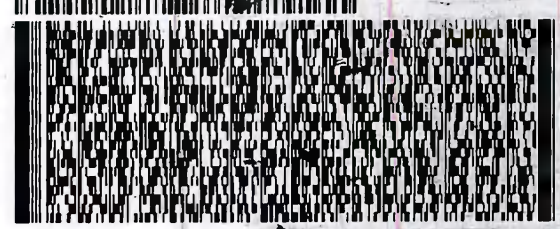
XO AGCA

15238
PIT

Uncorrected temp 2.9 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18



TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY

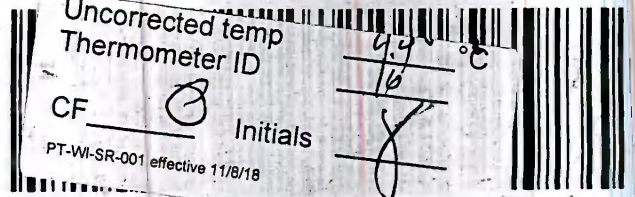


5 of 6
MPS# 5220 7116 6486
0263
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp 4.4 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18



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Part #159469-434 MW EXP 09/22

Part #159469-434 MW EXP 09/22

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Environment Testing
TestAmerica

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Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

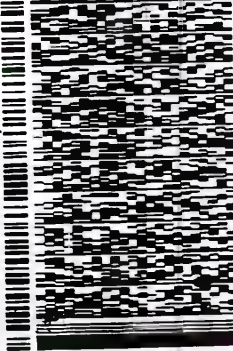
SHIP DATE: 04MAR22
ACTING: 60 95 LB
CAD: 859116/CAFE3510

BILL RECIPIENT

71 SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 966-7058
REF: ACC PLT WANSLEY



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J2171020121101V

3 of 6

MPS# 5220 7116 6464

0263

Mstr# 5220 7116 6442

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp

4.2 °C

Thermometer ID

16

CF Initials

J

PT-WI-SR-001 effective 11/8/18



4/12/2022

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 300
UNITED STATES US

SHIP DATE: 04MAR22
ACTING: 60 95 LB
CAD: 859116/CAFE3510

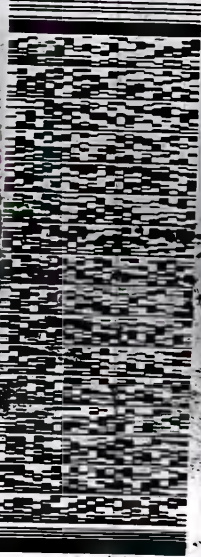
BILL RECIPIENT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 966-7058

REF: ACC PLT WAN



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Express



J2171020121101V

1 of 6

TRK# 5220 7116 6442

0201

MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO

15238
PA-US PIT

Uncorrected temp

Thermometer ID

4.9 °C

CF Initials

J

PT-WI-SR-001 effective 11/8/18



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Environment Testing
TestAmerica

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

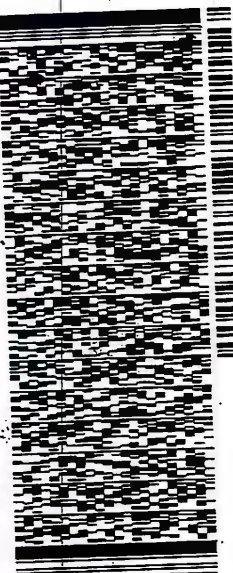
SHIP DATE: 04MAR22
ACTWT: 60.95 LB
CAD: BS9116/CAT E3510

BILL RECEIPT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH

301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 968-7068
REF: ACC PLT WANSLEY



J21 020121101 01

MPS# **5220 7116 6464**
[0263] Mstr# **5220 7116 6442**

[0201]

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

PA-US **15238**
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Uncorrected Temp _____
Thermometer ID _____

GF 0 Initials S

PT-M-SR-304-efedline-11/8/18



180-134763 Waybill

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Environment Testing
TestAmerica

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

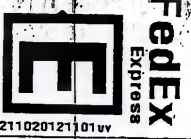
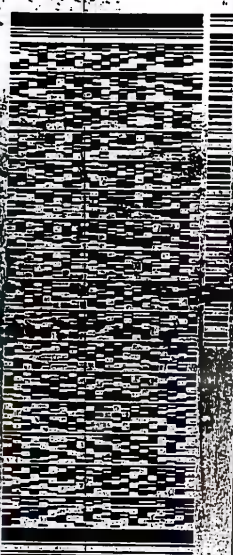
SHIP DATE: 04MAR22
ACTWT: 60.95 LB
CAD: BS9116/CAT E3510

BILL RECEIPT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH

301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 968-7068
REF: ACC PLT WAN



MA101210201127

TRK# **5220 7116 6442**
[0201] # MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0

PA-US **15238**
PIT

Uncorrected Temp _____
Thermometer ID _____


GF 0 Initials S

PT-M-SR-304-efedline-11/8/18

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SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY



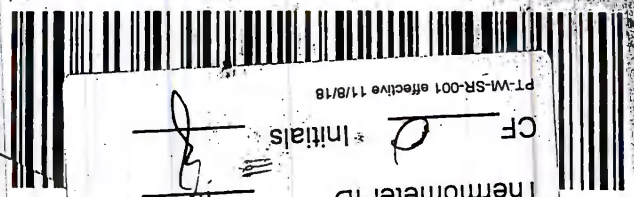
SATURDAY 12:00P

PS# 5220 7116 6475
MPS# 5220 7116 6442
4 of 6

XO AGGA

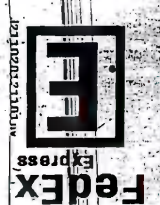
15238 PIT

Uncorrected temp 2.9 °C
Thermometer ID
Initials
CF
PT-WI-SR-001 effective 11/8/18



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EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY



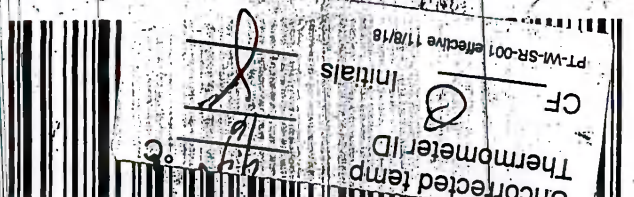
SATURDAY 12:00P

PS# 5220 7116 6475
MPS# 5220 7116 6442
5 of 6

XO AGGA

15238 PIT PA-US

Uncorrected temp
Thermometer ID
Initials
CF
PT-WI-SR-001 effective 11/8/18



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UNCORRECTED TEMP °C 22.1
 Thermometer ID
 Initials *6*
 CF
 PT-WI-SR-001 effective 11/8/18

XO AGCA
 MRS# 5220 7116 6442
 MSTR# 5220 7116 8442
 0201

SATURDAY 12:00P
 PRIORITY OVERNIGHT
 PA-US
 PIT 15238

2 of 6
 MRS# 5220 7116 6453
 MSTR# 5220 7116 8442
 0201

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 REF: ACC PLT WANSLEY
 (412) 968-7068
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 301 ALPHA DR.
 EUROFINS TESTAMERICA PITTSBURGH

TO SAMPLE RECEIVING
 EUROFINS TESTAMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238
 REF: ACC PLT WANSLEY
 (412) 968-7068

UNITED STATES US
 570C3, 5098R, 5E7
 121101W
 Fedex Express

UNCORRECTED TEMP °C 22.9
 Thermometer ID
 Initials *6*
 CF
 PT-WI-SR-001 effective 11/8/18

XO AGCA
 MRS# 5220 7116 6497
 MSTR# 5220 7116 8442
 0201

SATURDAY 12:00P
 PRIORITY OVERNIGHT
 PA-US
 PIT 15238

2 of 6
 MRS# 5220 7116 6497
 MSTR# 5220 7116 8442
 0201

Fedex Express
 REF: ACC PLT WANSLEY
 (412) 968-7068
 PITTSBURGH PA 15238
 RIDC PARK
 301 ALPHA DR.
 EUROFINS TESTAMERICA PITTSBURGH

TO SAMPLE RECEIVING
 EUROFINS TESTAMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238
 REF: ACC PLT WANSLEY
 (412) 968-7068

UNITED STATES US
 570C3, 5098R, 5E7
 121101W
 Fedex Express

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180-134765 Waybill



Environment Testing
TestAmerica

ORIGIN ID: L1YA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SULLY RD 800
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING: 60354LB
CAD: 859116CAF3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: ACC PLT WANSLEY



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

3 0 1 6

MPS# 5220 7116 6464

0201

Mstr# 5220 7116 6442

XO AGGA

15238
PIT

PA-US

Uncorrected temp

Thermometer ID 4.2 °C

CF 0 Initials

Initials

PT-WR-SR-001 effective 11/8/18



Part# 159469-43/PTWEXP 09/22

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Environment Testing
TestAmerica

ORIGIN ID: L1YA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SULLY RD 800
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING: 60354LB
CAD: 859116CAF3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: ACC PLT WANSLEY



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

3 0 1 6

TRK# 5220 7116 6442

0201

MASTER

XO

15238
PIT

PA-US

Uncorrected temp
Thermometer ID

CF 0 Initials

Initials

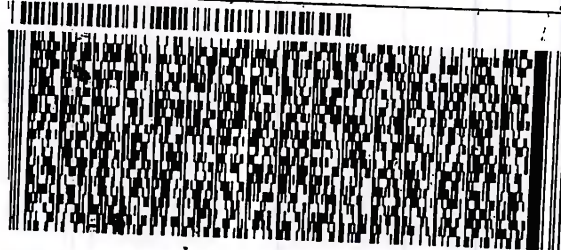
PT-WR-SR-001 effective 11/8/18



12
13

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



FedEx
Express



4 of 6
MPS# 5220 7116 6475
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

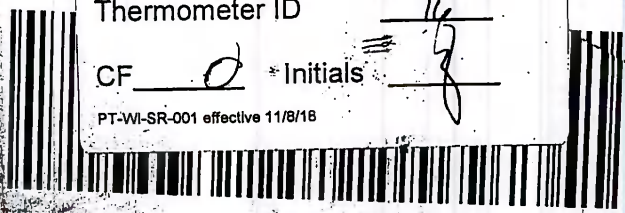
15238
PIT

Uncorrected temp
Thermometer ID

2.9 °C

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PT-WI-SR-001 effective 11/8/18



TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



FedEx
Express



5 of 6
MPS# 5220 7116 6486
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

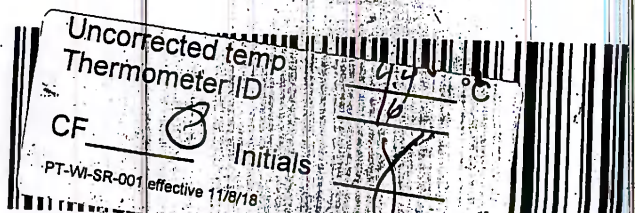
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PIT

Uncorrected temp
Thermometer ID

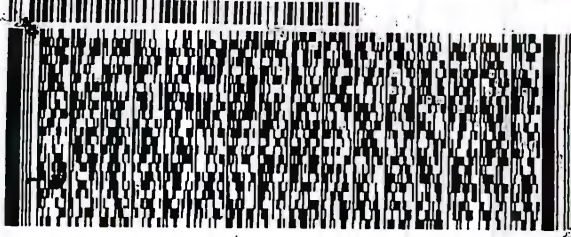
2.9 °C

CF o Initials g

PT-WI-SR-001 effective 11/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7058
REF: ACC PLT WANSLEY



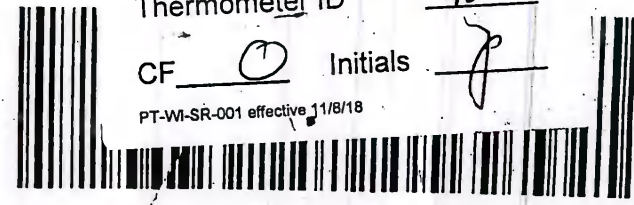
6 of 6
MPS# 0263 **5220 7116 6497**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

Uncorrected temp 23 °C
Thermometer ID 16

CF 0 Initials J

PT-WI-SR-001 effective 11/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7058
REF: ACC PLT WANSLEY



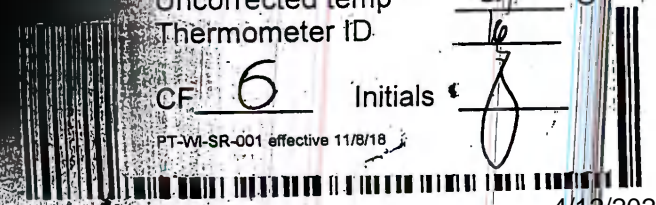
2 of 6
MPS# 0263 **5220 7116 6453**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 21 °C
Thermometer ID 16

CF 6 Initials J

PT-WI-SR-001 effective 11/8/18



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- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



180-134766 Waybill

IPS# 4 91 0
263-5220 7116 6475
1str# 5220 7116 6442

0201

XO AGCA

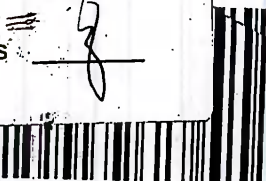
15238
PIT

Uncorrected temp
Thermometer ID

29 °C

CF o * Initials g

PT-WI-SR-001 effective 11/8/18



UNITED STATES US
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



5 of 6
MPS# 0263-5220 7116 6486
Mstr# 5220 7116 6442

0201

XO AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

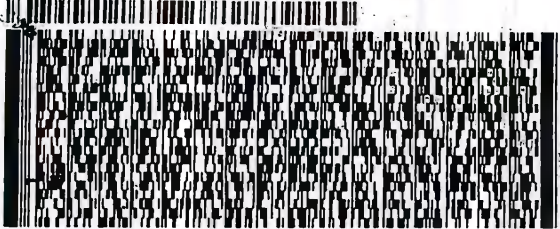
29 °C

CF o * Initials g

PT-WI-SR-001 effective 11/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



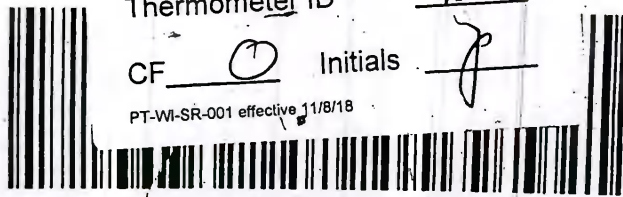
6 of 6
MPS# 0263 **5220 7116 6497**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

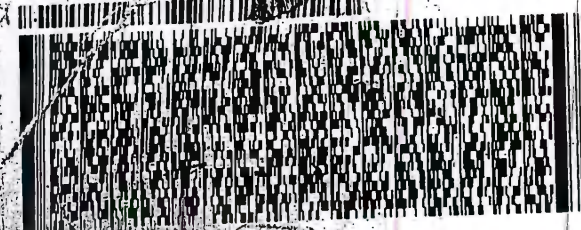
Uncorrected temp 2.9 °C
Thermometer ID 16

CF 0 Initials J

PT-WI-SR-001 effective 1/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



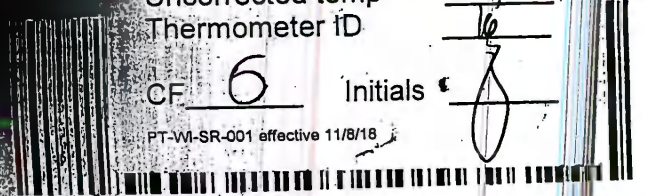
6 of 6
MPS# 0263 **5220 7116 6453**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 2.1 °C
Thermometer ID 16

CF 6 Initials J

PT-WI-SR-001 effective 11/8/18



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FedEx®

eurofins

Environment Testing
TestAmerica

ORIGIN ID: LLYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS-TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

3 01 6
MPS# 5220 7116 6464

Mstr# 5220 7116 6442 [0201]

XO AGGA

15238
PA-US
PIT

Uncorrected temp 4.2 °C

Thermometer ID 16

CF 0 Initials [Signature]

PT-WM-SR-001 effective 11/8/18



4/12/2022

Do not lift using

eurofins

Environment Testing
TestAmerica

ORIGIN ID: LLYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS-TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

1 01 6
TRK# 5220 7116 6442

MASTER 5220 7116 6442

XO

15238
PA-US
PIT

Uncorrected temp 4.1 °C
Thermometer ID 16
CF 0 Initials [Signature]
PT-WM-SR-001 effective 11/8/18



Part #159469-434 TW EXP 09/22

52034/908R/54

J21 020121010V

12
13

Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: <u>Brown, Shall</u> Lab PM: <u>Brown, Shall</u> Shipping/Receiving: <u>Shall.Brown@Eurofinset.com</u> E-Mail: <u>Shall.Brown@Eurofinset.com</u> Company: <u>TestAmerica Laboratories, Inc.</u> Carrier Tracking No(s): <u>180-456436.1</u> Address: <u>13715 Rider Trail North,</u> City: <u>Earth City</u> State, Zip: <u>MO, 63045</u> Phone: <u>314-298-8566(Tel) 314-298-8757(Fax)</u> PO #: _____ WO #: _____ Project #: <u>18019922</u> Site: <u>Wansley Ash Pond</u> Wansley CCR		Accreditations Required (See note): _____ Job #: <u>180-134761-2</u> Preservation Codes: M - Hexane A - HCL N - None B - NaOH O - AsNaO2 C - Zn Acetate P - Na2O4S D - Nitric Acid Q - Na2SO3 E - NaHSO4 R - Na2S2O3 F - MeOH S - H2SO4 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice V - MCAA J - DI Water W - pH 4-5 K - EDTA Z - other (specify) L - EDA Other: _____	
Sampler Information Sampler: _____ Phone: _____		Page: <u>Page 1 of 1</u> State of Origin: <u>Georgia</u> State of Origin: _____	
Due Date Requested: <u>4/10/2022</u> TAT Requested (days): _____		Analysis Requested _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
Sample Identification - Client ID (Lab ID) <u>WGWC-12 (180-134761-1)</u>		Total Number of containers: <u>2</u>	
Sample Date <u>3/4/22</u>	Sample Time <u>14:30 Eastern</u>	Sample Type (C=Comp, G=grab) <u>_____</u>	Matrix (W=water, S=solid, O=soil, T=tissue, A=air) <u>Water</u>
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Form MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<u>9320_Ra228/PreSep_0 Radium 228</u>		<u>9315_Ra226/PreSep_21 Radium 226</u>	
<u>Radium-228</u>		<u>Ra226/Ra228 GFC/ Combined Radium-226 and Radium-228</u>	
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh being the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/less/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.			
Possible Hazard Identification Unconfirmed _____ Deliverable Requested: <u>I, II, III, IV, Other (specify)</u> Primary Deliverable Rank: <u>2</u> Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <u>_____</u> Date: <u>3-8-22 17:00</u> Relinquished by: <u>_____</u> Date: _____ Relinquished by: <u>_____</u> Date: _____ Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____			
Method of Shipment: _____ Date/Time: _____ Received by: <u>_____</u> Company: _____ Received by: <u>Jana Worthington</u> Date/Time: <u>MAR 09 2022 10:08</u> Company: <u>ETA-STE</u> Received by: _____ Date/Time: _____ Company: _____			



Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): COC No 180-456436.1																																																																																																
Client Contact: Pittsburgh, PA 15238		E-Mail: Shali.Brown@Eurofinset.com	State of Origin: Georgia																																																																																																
Shipping/Receiving		Project #: 18019922	Page: Page 1 of 1																																																																																																
Company: TestAmerica Laboratories, Inc.		SSOW#	Job #: 180-134763-2																																																																																																
Address: 13715 Rider Trail North,		Due Date Requested: 4/10/2022	Accreditations Required (See note):																																																																																																
City: Earth City		TAT Requested (days):	Analysis Requested <table border="1"> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=soil, O=water/oil, BT=BTX&U, AA=As)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>9320_Ra228/PreSep_0 Radium 228</th> <th>9315_Ra226/PreSep_21 Radium 226</th> <th>Ra226Ra228_GFP/Combined Radium-226 and Radium-228</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>WGWC-19 (180-134763-2)</td> <td>3/3/22</td> <td>14:05 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>WGWC-10 (180-134763-5)</td> <td>3/3/22</td> <td>11:52 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>WGWC-24 (180-134763-6)</td> <td>3/3/22</td> <td>14:06 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>WGWC-21 (180-134763-7)</td> <td>3/3/22</td> <td>16:27 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>WGWC-23 (180-134763-9)</td> <td>3/4/22</td> <td>09:47 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>4</td> <td></td> </tr> <tr> <td>WGWC-17 (180-134763-10)</td> <td>3/4/22</td> <td>11:14 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>Dup-3 (180-134763-11)</td> <td>3/4/22</td> <td>00:01 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> </table>	Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=soil, O=water/oil, BT=BTX&U, AA=As)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:	WGWC-19 (180-134763-2)	3/3/22	14:05 Eastern	Water	Water	X	X	X	X	X	2		WGWC-10 (180-134763-5)	3/3/22	11:52 Eastern	Water	Water	X	X	X	X	X	2		WGWC-24 (180-134763-6)	3/3/22	14:06 Eastern	Water	Water	X	X	X	X	X	4		WGWC-21 (180-134763-7)	3/3/22	16:27 Eastern	Water	Water	X	X	X	X	X	2		WGWC-23 (180-134763-9)	3/4/22	09:47 Eastern	Water	Water	X	X	X	X	X	4		WGWC-17 (180-134763-10)	3/4/22	11:14 Eastern	Water	Water	X	X	X	X	X	2		Dup-3 (180-134763-11)	3/4/22	00:01 Eastern	Water	Water	X	X	X	X	X	2	
Sample ID (Lab ID)	Sample Date	Sample Time		Sample Type (C=Comp, G=grab)	Matrix (W=water, S=soil, O=water/oil, BT=BTX&U, AA=As)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:																																																																																							
WGWC-19 (180-134763-2)	3/3/22	14:05 Eastern		Water	Water	X	X	X	X	X	2																																																																																								
WGWC-10 (180-134763-5)	3/3/22	11:52 Eastern		Water	Water	X	X	X	X	X	2																																																																																								
WGWC-24 (180-134763-6)	3/3/22	14:06 Eastern		Water	Water	X	X	X	X	X	4																																																																																								
WGWC-21 (180-134763-7)	3/3/22	16:27 Eastern		Water	Water	X	X	X	X	X	2																																																																																								
WGWC-23 (180-134763-9)	3/4/22	09:47 Eastern		Water	Water	X	X	X	X	X	4																																																																																								
WGWC-17 (180-134763-10)	3/4/22	11:14 Eastern		Water	Water	X	X	X	X	X	2																																																																																								
Dup-3 (180-134763-11)	3/4/22	00:01 Eastern		Water	Water	X	X	X	X	X	2																																																																																								
Project Name: Wansley Ash Pond		Project #: 18019922		Preservation Code:																																																																																															
Site: Wansley CCR		PO #:	Matrix (W=water, S=soil, O=water/oil, BT=BTX&U, AA=As)																																																																																																
		WO #:	Field Filtered Sample (Yes or No)																																																																																																
			Perform MS/MSD (Yes or No)																																																																																																
			9320_Ra228/PreSep_0 Radium 228																																																																																																
			9315_Ra226/PreSep_21 Radium 226																																																																																																
			Ra226Ra228_GFP/Combined Radium-226 and Radium-228																																																																																																
			Total Number of Containers																																																																																																
			Special Instructions/Note:																																																																																																

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: *[Signature]* Date: 3-8-22 17:00 Company: *[Signature]* Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Received by: *[Signature]* Date/Time: MAR 09 2022 10:08 Company: *[Signature]*



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-456436.1
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofins.com	State of Origin: Georgia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		
Address: 13715 Rider Trail North,		Job #: 180-134765-2		
City: Earth City		Analysis Requested		
State, Zip: MO, 63045		Preservation Codes:		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
PO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
WO #:		Total Number of Containers		
Project #: 18019922		<input checked="" type="checkbox"/> 9315 Ra226/PreSep_21 Radium 226 <input checked="" type="checkbox"/> 9320 Ra226/PreSep_0 Radium 228 <input checked="" type="checkbox"/> Radium-228 <input checked="" type="checkbox"/> 9315 Ra226/PreSep_21 Radium 226 and Radium-228		
Site: Wansley CCR		<input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No)		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:		
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Solid, O=Water/Oil, BT=Tissue, A=Al)	
3/3/22	00:01 Eastern	Water	Water	
3/3/22	13:40 Eastern	Water	Water	
3/3/22	14:52 Eastern	Water	Water	
3/3/22	11:52 Eastern	Water	Water	
3/3/22	13:13 Eastern	Water	Water	
3/3/22	14:07 Eastern	Water	Water	
3/3/22	15:30 Eastern	Water	Water	
3/3/22	15:15 Eastern	Water	Water	
3/4/22	10:50 Eastern	Water	Water	
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.				
Possible Hazard Identification				
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <i>Mo</i> Date: 3-8-22 17:00 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:				
Received by: <i>Sara Weddington</i> Date/Time: MAR 09 2022 10:04 Received by: _____ Date/Time: _____ Company: <i>ETA</i> Company: _____ Company: _____ Company: _____				

Chain of Custody Record

Eurofins Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Client Contact Shipping/Receiving	Lab PM Brown, Shali	Carrier Tracking No(s) 180-456436.2	State of Origin Georgia	Page 2 of 2	COC No. 180-456436.2
Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@Eurofins.com			
Address: 13715 Rider Trail North, Earth City, MO, 63045		Accreditations Required (See note)			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Project Name: Wansley ash Pond		Analysis Requested			
Site: Wansley CCR		Total Number of Containers			
Due Date Requested: 4/10/2022	TAT Requested (days): 4	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Radium-228	Special Instructions/Note:
Sample Date 3/4/22	Sample Time 12:11 Eastern	Sample Type (C=Comp, G=grab) Water	Matrix (W=water, S=solid, O=soil, A=air) Water	9320_Ra228/PreSep_0 Radium 228	2
Sample Date 3/4/22	Sample Time 11:50 Eastern	Sample Type (C=Comp, G=grab) Water	Matrix (W=water, S=solid, O=soil, A=air) Water	9315_Ra226/PreSep_21 Radium 226 R226Ra228_GFP/ Combined Radium-226 and	2

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date: 3-8-22 Time: 1700 Company: Ceteffa
 Relinquished by: _____ Date: _____ Time: _____ Company: _____
 Relinquished by: _____ Date: _____ Time: _____ Company: _____

Custody Seals Intact: Yes No Cooler Temperature(s) °C and Other Remarks



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Sampler: Lab PM: Brown, Shali E-Mail: Shali.Brown@Eurofinset.com Phone: Accreditations Required (See note):		Carner Tracking No(s): 180-456436.1 State of Origin: Georgia Page: Page 1 of 1 Job #: 180-134766-2		COC No: 180-456436.1	
Due Date Requested: 4/10/2022 TAT Requested (days):		Analysis Requested: Perform M/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 9320_Ra228/PreSep_0 Radium 228 <input checked="" type="checkbox"/> 9315_Ra226/PreSep_21 Radium 226 <input checked="" type="checkbox"/> Radium-228 <input checked="" type="checkbox"/> Radium-228 GFC/ Combined Radium-226 and Radium-228 <input checked="" type="checkbox"/>		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify) Z - other (specify) Other:		Total Number of Containers: 2 2 Special Instructions/Note: Special Instructions/Note:	
Sample Date: 3/4/22 Sample Time: 13:15 Eastern Sample Type (C=Comp, G=grab): Water Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air): Water Preservation Code:		Sample Date: 3/4/22 Sample Time: 13:50 Eastern Sample Type (C=Comp, G=grab): Water Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air): Water Preservation Code:		Sample Date: Sample Time: Sample Type (C=Comp, G=grab): Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air): Preservation Code:		Sample Date: Sample Time: Sample Type (C=Comp, G=grab): Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air): Preservation Code:	
Sample Identification - Client ID (Lab ID) EB-3 (180-134766-1) WGWC-22 (180-134766-2)		Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.		Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date/Time: 3-8-22 17:00 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Δ Yes Δ No		Date: _____ Time: _____ Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks:		Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____		Method of Shipment: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134761

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134761

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/09/22 11:06 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134763

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134763

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/09/22 11:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134765

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134765

List Source: Eurofins St. Louis

List Number: 2

List Creation: 03/09/22 11:12 AM

Creator: Worthington, Sierra M

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is < 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134766

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134766

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/09/22 11:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-134564-1

Client Project/Site: Wansley Ash Pond

Sampling Event: Wansley Ash Pond Initial Scan Event

Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:

4/6/2022 4:28:02 PM

Shali Brown, Project Manager II

(615)301-5031

Shali.Brown@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	13
QC Sample Results	22
QC Association Summary	28
Chain of Custody	32
Receipt Checklists	40

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Job ID: 180-134564-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134564-1**

Comments

040622 Revised report to correct Boron results to ND after re-analysis for the following samples: WGWA-1 (180-134564-1) and WGWA-6 (180-134568-4), This report replaces the report previously issued on 031722.

Receipt

The samples were received on 3/3/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 3.7° C and 3.9° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-391051 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: WGWA-5 (180-134568-3), WGWA-6 (180-134568-4), Dup-1 (180-134568-5) and (CCV 180-391051/65).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 2320B: The method blank for analytical batch 180-390904 contained results above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or were ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22 *
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134564-1	WGWA-1	Water	03/01/22 12:11	03/03/22 09:30
180-134564-2	EB-1	Water	03/01/22 13:00	03/03/22 09:30
180-134564-3	FB-1	Water	03/01/22 14:50	03/03/22 09:30
180-134564-4	WGWA-2	Water	03/01/22 15:10	03/03/22 09:30
180-134568-1	WGWA-3	Water	03/01/22 15:43	03/03/22 09:30
180-134568-2	WGWA-4	Water	02/28/22 16:28	03/03/22 09:30
180-134568-3	WGWA-5	Water	03/01/22 13:07	03/03/22 09:30
180-134568-4	WGWA-6	Water	03/01/22 14:37	03/03/22 09:30
180-134568-5	Dup-1	Water	03/01/22 00:01	03/03/22 09:30

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Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390542	03/05/22 20:57	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 12:57	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			393766	03/31/22 11:38	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:37	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 14:12	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 17:37	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391140	03/01/22 12:11	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390542	03/05/22 21:12	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 09:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:38	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 14:44	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 17:21	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390542	03/05/22 21:26	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 09:26	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:39	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 14:55	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 17:15	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390542	03/05/22 23:22	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 13:00	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:40	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 15:06	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 17:10	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391140	03/01/22 15:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:07	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:04	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391910	03/16/22 14:41	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 11:57	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 00:59	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	03/01/22 15:43	FDS	TAL PIT

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:21	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:08	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391910	03/16/22 14:43	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 13:03	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 16:57	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	02/28/22 16:28	FDS	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:35	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:22	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391910	03/16/22 14:44	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 13:25	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391320	03/09/22 17:44	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	03/01/22 13:07	FDS	TAL PIT

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:50	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:47	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			393766	03/31/22 11:41	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391543	03/14/22 13:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391697	03/15/22 13:24	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 13:47	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 16:23	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	03/01/22 14:37	FDS	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: Dup-1
Date Collected: 03/01/22 00:01
Date Received: 03/03/22 09:30

Lab Sample ID: 180-134568-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390542	03/05/22 22:10	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 13:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391543	03/14/22 13:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391697	03/15/22 13:25	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 15:16	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 17:51	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

- HEK = Hope Kiesling
- RGM = Rebecca Manns
- RJR = Ron Rosenbaum

Batch Type: Analysis

- CMT = Cassandra Tlumac
- FDS = Sampler Field
- HEK = Hope Kiesling
- JRB = James Burzio
- RJR = Ron Rosenbaum
- RSK = Robert Kurtz
- SNR = Sabra Richart

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		1.0	0.71	mg/L			03/05/22 20:57	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 20:57	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 20:57	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 12:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 12:57	1
Barium	0.047		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 12:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 12:57	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/31/22 11:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 12:57	1
Calcium	1.1		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 12:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 12:57	1
Cobalt	0.00073	J	0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 12:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 12:57	1
Lithium	0.0029	J	0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 12:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 12:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 12:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 12:57	1
Sodium	3.2		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 12:57	1
Potassium	1.2		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 12:57	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 12:57	1
Magnesium	1.1		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 12:57	1
Manganese	0.010		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 12:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.8		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:12	1
Total Dissolved Solids	30		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	6.9		5.0	5.0	mg/L			03/09/22 17:37	1
Bicarbonate Alkalinity as CaCO3	6.9		5.0	5.0	mg/L			03/09/22 17:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.32				SU			03/01/22 12:11	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/22 21:12	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 21:12	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 21:12	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 09:22	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 09:22	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 09:22	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 09:22	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 09:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 09:22	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 09:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 09:22	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 09:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 09:22	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 09:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 09:22	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 09:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 09:22	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 09:22	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 09:22	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 09:22	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 09:22	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 09:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	7.4		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:44	1
Total Dissolved Solids	<10		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 17:21	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 17:21	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/22 21:26	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 21:26	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 21:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 09:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 09:26	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 09:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 09:26	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 09:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 09:26	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 09:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 09:26	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 09:26	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 09:26	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 09:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 09:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 09:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 09:26	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 09:26	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 09:26	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 09:26	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 09:26	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 09:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	6.7		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:55	1
Total Dissolved Solids	<10		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			03/05/22 23:22	1
Fluoride	0.058	J	0.10	0.026	mg/L			03/05/22 23:22	1
Sulfate	1.6		1.0	0.76	mg/L			03/05/22 23:22	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:00	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:00	1
Barium	0.020		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:00	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:00	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:00	1
Calcium	13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:00	1
Cobalt	0.00038	J	0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:00	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:00	1
Lithium	0.0085		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:00	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:00	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:00	1
Sodium	9.2		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:00	1
Potassium	2.3		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:00	1
Iron	0.030	J	0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:00	1
Magnesium	4.8		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:00	1
Manganese	0.032		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.4		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:06	1
Total Dissolved Solids	92		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	67	B	5.0	5.0	mg/L			03/08/22 17:10	1
Bicarbonate Alkalinity as CaCO3	67	B	5.0	5.0	mg/L			03/08/22 17:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.20				SU			03/01/22 15:10	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			03/05/22 17:07	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 17:07	1
Sulfate	0.98	J	1.0	0.76	mg/L			03/05/22 17:07	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:04	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:04	1
Barium	0.014		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:04	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:04	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:04	1
Calcium	1.6		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:04	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:04	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:04	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:04	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:04	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:04	1
Sodium	2.6		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:04	1
Potassium	1.2		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:04	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:04	1
Magnesium	1.0		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:04	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	6.3		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 11:57	1
Total Dissolved Solids	31		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	11		5.0	5.0	mg/L			03/12/22 00:59	1
Bicarbonate Alkalinity as CaCO3	11		5.0	5.0	mg/L			03/12/22 00:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.59				SU			03/01/22 15:43	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			03/05/22 17:21	1
Fluoride	0.083	J	0.10	0.026	mg/L			03/05/22 17:21	1
Sulfate	8.4		1.0	0.76	mg/L			03/05/22 17:21	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:08	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:08	1
Barium	0.0053	J	0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:08	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:08	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:08	1
Calcium	14		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:08	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:08	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:08	1
Lithium	0.0050		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:08	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:08	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:08	1
Sodium	7.0		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:08	1
Potassium	2.6		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:08	1
Iron	1.0		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:08	1
Magnesium	2.4		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:08	1
Manganese	0.14		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:08	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	8.9		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 13:03	1
Total Dissolved Solids	95		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	64	B	5.0	5.0	mg/L			03/08/22 16:57	1
Bicarbonate Alkalinity as CaCO3	64	B	5.0	5.0	mg/L			03/08/22 16:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.14				SU			02/28/22 16:28	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			03/05/22 17:35	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 17:35	1
Sulfate	0.99	J	1.0	0.76	mg/L			03/05/22 17:35	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:22	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:22	1
Barium	0.017		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:22	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:22	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:22	1
Calcium	2.1		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:22	1
Cobalt	0.0014	J	0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:22	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:22	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:22	1
Sodium	1.6		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:22	1
Potassium	1.3		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:22	1
Iron	0.33		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:22	1
Magnesium	0.72		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:22	1
Manganese	0.0076		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	9.5		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 13:25	1
Total Dissolved Solids	23		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	9.6		5.0	5.0	mg/L			03/09/22 17:44	1
Bicarbonate Alkalinity as CaCO3	9.6		5.0	5.0	mg/L			03/09/22 17:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.47				SU			03/01/22 13:07	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			03/05/22 17:50	1
Fluoride	0.063	J	0.10	0.026	mg/L			03/05/22 17:50	1
Sulfate	9.2		1.0	0.76	mg/L			03/05/22 17:50	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:47	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:47	1
Barium	0.0071	J	0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:47	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:47	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/31/22 11:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:47	1
Calcium	22		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:47	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:47	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:47	1
Lithium	0.0060		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:47	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:47	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:47	1
Sodium	5.2		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:47	1
Potassium	3.0		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:47	1
Iron	0.30		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:47	1
Magnesium	2.1		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:47	1
Manganese	0.13		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/14/22 13:29	03/15/22 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.3		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 13:47	1
Total Dissolved Solids	140		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	80	B	5.0	5.0	mg/L			03/08/22 16:23	1
Bicarbonate Alkalinity as CaCO3	80	B	5.0	5.0	mg/L			03/08/22 16:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86				SU			03/01/22 14:37	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: Dup-1

Lab Sample ID: 180-134568-5

Date Collected: 03/01/22 00:01

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			03/05/22 22:10	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 22:10	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 22:10	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:51	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:51	1
Barium	0.014		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:51	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:51	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:51	1
Calcium	1.7		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:51	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:51	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:51	1
Lithium	0.0013	J	0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:51	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:51	1
Sodium	2.7		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:51	1
Potassium	1.3		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:51	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:51	1
Magnesium	1.1		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:51	1
Manganese	0.010		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/14/22 13:29	03/15/22 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.0		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:16	1
Total Dissolved Solids	29		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	11		5.0	5.0	mg/L			03/09/22 17:51	1
Bicarbonate Alkalinity as CaCO3	11		5.0	5.0	mg/L			03/09/22 17:51	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-390542/38
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/22 21:55	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 21:55	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 21:55	1

Lab Sample ID: MB 180-390542/7
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/22 14:17	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 14:17	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 14:17	1

Lab Sample ID: LCS 180-390542/37
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: LCS 180-390542/6
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: 180-134568-5 MS
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.7		50.0	49.8		mg/L		96	90 - 110
Fluoride	<0.026		2.50	2.44		mg/L		98	90 - 110
Sulfate	<0.76		50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: 180-134568-5 MSD
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.7		50.0	50.1		mg/L		97	90 - 110	1	20
Fluoride	<0.026		2.50	2.54		mg/L		102	90 - 110	4	20
Sulfate	<0.76		50.0	50.3		mg/L		101	90 - 110	1	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-390792/1-A
Matrix: Water
Analysis Batch: 391051

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 390792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 12:38	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 12:38	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 12:38	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 12:38	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 12:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 12:38	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 12:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 12:38	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 12:38	1
Lead	0.000240	J	0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 12:38	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 12:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 12:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 12:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 12:38	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 12:38	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 12:38	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 12:38	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 12:38	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 12:38	1

Lab Sample ID: LCS 180-390792/2-A
Matrix: Water
Analysis Batch: 391051

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 390792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.256		mg/L		103	80 - 120
Arsenic	1.00	0.952		mg/L		95	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.522		mg/L		104	80 - 120
Boron	1.25	1.20		mg/L		96	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Calcium	25.0	24.7		mg/L		99	80 - 120
Chromium	0.500	0.509		mg/L		102	80 - 120
Cobalt	0.500	0.487		mg/L		97	80 - 120
Lead	0.500	0.508		mg/L		102	80 - 120
Lithium	0.500	0.513		mg/L		103	80 - 120
Molybdenum	0.500	0.506		mg/L		101	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Sodium	25.0	26.4		mg/L		106	80 - 120
Potassium	25.0	24.9		mg/L		100	80 - 120
Iron	5.00	5.24		mg/L		105	80 - 120
Magnesium	25.0	25.7		mg/L		103	80 - 120
Manganese	0.500	0.472		mg/L		94	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-391543/1-A
Matrix: Water
Analysis Batch: 391697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/14/22 13:29	03/15/22 13:05	1

Lab Sample ID: LCS 180-391543/2-A
Matrix: Water
Analysis Batch: 391697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00275		mg/L		110	80 - 120

Lab Sample ID: MB 180-391618/1-A
Matrix: Water
Analysis Batch: 391910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:24	1

Lab Sample ID: LCS 180-391618/2-A
Matrix: Water
Analysis Batch: 391910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00270		mg/L		108	80 - 120

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-390502/1-A
Matrix: Water
Analysis Batch: 390541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 11:13	1

Lab Sample ID: LCS 180-390502/2-A
Matrix: Water
Analysis Batch: 390541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	14.5	15.3		mg/L		105	85 - 115

Lab Sample ID: 180-134568-1 MS
Matrix: Water
Analysis Batch: 390541

Client Sample ID: WGWA-3
Prep Type: Total/NA
Prep Batch: 390502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	6.3		14.5	17.2		mg/L		75	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 180-134568-1 MSD
Matrix: Water
Analysis Batch: 390541

Client Sample ID: WGWA-3
Prep Type: Total/NA
Prep Batch: 390502

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Sulfide	6.3		14.5	18.6		mg/L		85	75 - 125	8	20

Lab Sample ID: MB 180-390812/1-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390812

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 13:51	1

Lab Sample ID: LCS 180-390812/2-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Result
Sulfide	14.4	15.3		mg/L		106	85 - 115

Lab Sample ID: 180-134564-1 MS
Matrix: Water
Analysis Batch: 390865

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Sulfide	5.8		14.4	17.0		mg/L		77	75 - 125	

Lab Sample ID: 180-134564-1 MSD
Matrix: Water
Analysis Batch: 390865

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Sulfide	5.8		14.4	17.4		mg/L		80	75 - 125	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-390551/2
Matrix: Water
Analysis Batch: 390551

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10	10	mg/L			03/05/22 15:33	1

Lab Sample ID: LCS 180-390551/1
Matrix: Water
Analysis Batch: 390551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Result
Total Dissolved Solids	469	480		mg/L		102	85 - 115

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-134568-3 DU
Matrix: Water
Analysis Batch: 390551

Client Sample ID: WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	23		24.0		mg/L		4	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-390904/6
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	5.54		5.0	5.0	mg/L			03/08/22 15:48	1
Bicarbonate Alkalinity as CaCO3	5.54		5.0	5.0	mg/L			03/08/22 15:48	1

Lab Sample ID: LCS 180-390904/5
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	251		mg/L		95	90 - 110

Lab Sample ID: LLCS 180-390904/4
Matrix: Water
Analysis Batch: 390904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.7		mg/L		92	75 - 125

Lab Sample ID: 180-134568-2 DU
Matrix: Water
Analysis Batch: 390904

Client Sample ID: WGWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	64	B	63.2		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	64	B	63.2		mg/L		1	20

Lab Sample ID: MB 180-391320/6
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/09/22 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 17:15	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-391320/5
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	240		mg/L		91	90 - 110

Lab Sample ID: LLCS 180-391320/4
Matrix: Water
Analysis Batch: 391320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		88	75 - 125

Lab Sample ID: MB 180-391369/30
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1

Lab Sample ID: MB 180-391369/54
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1

Lab Sample ID: LCS 180-391369/53
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	248		mg/L		94	90 - 110

Lab Sample ID: LLCS 180-391369/52
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	15.1		mg/L		95	75 - 125

Lab Sample ID: 180-134568-1 DU
Matrix: Water
Analysis Batch: 391369

Client Sample ID: WGWA-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	11		11.6		mg/L		6	20
Bicarbonate Alkalinity as CaCO3	11		11.6		mg/L		6	20

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

HPLC/IC

Analysis Batch: 390542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-134564-2	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-134564-3	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-134564-4	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-134568-1	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-134568-2	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-134568-3	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-134568-4	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
180-134568-5	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390542/38	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390542/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390542/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390542/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134568-5 MS	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-134568-5 MSD	Dup-1	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 390792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total Recoverable	Water	3005A	
180-134564-2	EB-1	Total Recoverable	Water	3005A	
180-134564-3	FB-1	Total Recoverable	Water	3005A	
180-134564-4	WGWA-2	Total Recoverable	Water	3005A	
180-134568-1	WGWA-3	Total Recoverable	Water	3005A	
180-134568-2	WGWA-4	Total Recoverable	Water	3005A	
180-134568-3	WGWA-5	Total Recoverable	Water	3005A	
180-134568-4	WGWA-6	Total Recoverable	Water	3005A	
180-134568-5	Dup-1	Total Recoverable	Water	3005A	
MB 180-390792/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-390792/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 391051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total Recoverable	Water	EPA 6020B	390792
180-134564-2	EB-1	Total Recoverable	Water	EPA 6020B	390792
180-134564-3	FB-1	Total Recoverable	Water	EPA 6020B	390792
180-134564-4	WGWA-2	Total Recoverable	Water	EPA 6020B	390792
180-134568-1	WGWA-3	Total Recoverable	Water	EPA 6020B	390792
180-134568-2	WGWA-4	Total Recoverable	Water	EPA 6020B	390792
180-134568-3	WGWA-5	Total Recoverable	Water	EPA 6020B	390792
180-134568-4	WGWA-6	Total Recoverable	Water	EPA 6020B	390792
180-134568-5	Dup-1	Total Recoverable	Water	EPA 6020B	390792
MB 180-390792/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	390792
LCS 180-390792/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	390792

Prep Batch: 391543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-4	WGWA-6	Total/NA	Water	7470A	
180-134568-5	Dup-1	Total/NA	Water	7470A	
MB 180-391543/1-A	Method Blank	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Metals (Continued)

Prep Batch: 391543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-391543/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 391618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	7470A	
180-134564-2	EB-1	Total/NA	Water	7470A	
180-134564-3	FB-1	Total/NA	Water	7470A	
180-134564-4	WGWA-2	Total/NA	Water	7470A	
180-134568-1	WGWA-3	Total/NA	Water	7470A	
180-134568-2	WGWA-4	Total/NA	Water	7470A	
180-134568-3	WGWA-5	Total/NA	Water	7470A	
MB 180-391618/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391618/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 391697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-4	WGWA-6	Total/NA	Water	EPA 7470A	391543
180-134568-5	Dup-1	Total/NA	Water	EPA 7470A	391543
MB 180-391543/1-A	Method Blank	Total/NA	Water	EPA 7470A	391543
LCS 180-391543/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391543

Analysis Batch: 391910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	EPA 7470A	391618
180-134564-2	EB-1	Total/NA	Water	EPA 7470A	391618
180-134564-3	FB-1	Total/NA	Water	EPA 7470A	391618
180-134564-4	WGWA-2	Total/NA	Water	EPA 7470A	391618
180-134568-1	WGWA-3	Total/NA	Water	EPA 7470A	391618
180-134568-2	WGWA-4	Total/NA	Water	EPA 7470A	391618
180-134568-3	WGWA-5	Total/NA	Water	EPA 7470A	391618
MB 180-391618/1-A	Method Blank	Total/NA	Water	EPA 7470A	391618
LCS 180-391618/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391618

Analysis Batch: 393766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total Recoverable	Water	EPA 6020B	390792
180-134568-4	WGWA-6	Total Recoverable	Water	EPA 6020B	390792

General Chemistry

Prep Batch: 390502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-1	WGWA-3	Total/NA	Water	9030B	
180-134568-2	WGWA-4	Total/NA	Water	9030B	
180-134568-3	WGWA-5	Total/NA	Water	9030B	
180-134568-4	WGWA-6	Total/NA	Water	9030B	
MB 180-390502/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390502/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134568-1 MS	WGWA-3	Total/NA	Water	9030B	
180-134568-1 MSD	WGWA-3	Total/NA	Water	9030B	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

General Chemistry

Analysis Batch: 390541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-1	WGWA-3	Total/NA	Water	EPA 9034	390502
180-134568-2	WGWA-4	Total/NA	Water	EPA 9034	390502
180-134568-3	WGWA-5	Total/NA	Water	EPA 9034	390502
180-134568-4	WGWA-6	Total/NA	Water	EPA 9034	390502
MB 180-390502/1-A	Method Blank	Total/NA	Water	EPA 9034	390502
LCS 180-390502/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390502
180-134568-1 MS	WGWA-3	Total/NA	Water	EPA 9034	390502
180-134568-1 MSD	WGWA-3	Total/NA	Water	EPA 9034	390502

Analysis Batch: 390551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	SM 2540C	
180-134564-2	EB-1	Total/NA	Water	SM 2540C	
180-134564-3	FB-1	Total/NA	Water	SM 2540C	
180-134564-4	WGWA-2	Total/NA	Water	SM 2540C	
180-134568-1	WGWA-3	Total/NA	Water	SM 2540C	
180-134568-2	WGWA-4	Total/NA	Water	SM 2540C	
180-134568-3	WGWA-5	Total/NA	Water	SM 2540C	
180-134568-4	WGWA-6	Total/NA	Water	SM 2540C	
180-134568-5	Dup-1	Total/NA	Water	SM 2540C	
MB 180-390551/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-390551/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-134568-3 DU	WGWA-5	Total/NA	Water	SM 2540C	

Prep Batch: 390812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	9030B	
180-134564-2	EB-1	Total/NA	Water	9030B	
180-134564-3	FB-1	Total/NA	Water	9030B	
180-134564-4	WGWA-2	Total/NA	Water	9030B	
180-134568-5	Dup-1	Total/NA	Water	9030B	
MB 180-390812/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134564-1 MS	WGWA-1	Total/NA	Water	9030B	
180-134564-1 MSD	WGWA-1	Total/NA	Water	9030B	

Analysis Batch: 390865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	EPA 9034	390812
180-134564-2	EB-1	Total/NA	Water	EPA 9034	390812
180-134564-3	FB-1	Total/NA	Water	EPA 9034	390812
180-134564-4	WGWA-2	Total/NA	Water	EPA 9034	390812
180-134568-5	Dup-1	Total/NA	Water	EPA 9034	390812
MB 180-390812/1-A	Method Blank	Total/NA	Water	EPA 9034	390812
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390812
180-134564-1 MS	WGWA-1	Total/NA	Water	EPA 9034	390812
180-134564-1 MSD	WGWA-1	Total/NA	Water	EPA 9034	390812

Analysis Batch: 390904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-2	EB-1	Total/NA	Water	SM2320 B	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

General Chemistry (Continued)

Analysis Batch: 390904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-3	FB-1	Total/NA	Water	SM2320 B	
180-134564-4	WGWA-2	Total/NA	Water	SM2320 B	
180-134568-2	WGWA-4	Total/NA	Water	SM2320 B	
180-134568-4	WGWA-6	Total/NA	Water	SM2320 B	
MB 180-390904/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-390904/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-390904/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134568-2 DU	WGWA-4	Total/NA	Water	SM2320 B	

Analysis Batch: 391320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	SM2320 B	
180-134568-3	WGWA-5	Total/NA	Water	SM2320 B	
180-134568-5	Dup-1	Total/NA	Water	SM2320 B	
MB 180-391320/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391320/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391320/4	Lab Control Sample	Total/NA	Water	SM2320 B	

Analysis Batch: 391369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-1	WGWA-3	Total/NA	Water	SM2320 B	
MB 180-391369/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/54	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391369/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/52	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134568-1 DU	WGWA-3	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

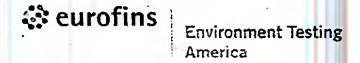
Analysis Batch: 391140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	Field Sampling	
180-134564-4	WGWA-2	Total/NA	Water	Field Sampling	
180-134568-1	WGWA-3	Total/NA	Water	Field Sampling	
180-134568-2	WGWA-4	Total/NA	Water	Field Sampling	
180-134568-3	WGWA-5	Total/NA	Water	Field Sampling	
180-134568-4	WGWA-6	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information					Sampler: <i>J. Benisford</i>		Lab PM: Brown, Shali			Carrier Tracking No(s):		COC No:																																																																																																																																																																																																																																																																									
Client Contact: SCS Contacts					Phone: <i>770-594-5998</i>		E-Mail: <i>shali.brown@eurofinset.com</i>					Page:																																																																																																																																																																																																																																																																									
Company: GA Power					Analysis Requested												Job #:																																																																																																																																																																																																																																																																				
Address: 241 Ralph McGill Blvd SE					Due Date Requested:					<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform (MS) / MSD (Yes or No)</td> <td>App III Metals: B, Ca</td> <td>CI, F, SO & TDS (EPA 300 & SM 2640C)</td> <td>App IV Metals (EPA 60207/476): Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Li,Hg,Mo,Se,Ti</td> <td>Radium 226 & 228 (SW-846 9316/9920)</td> <td>Major Ions - Bicarbonate Alkalinity, Total Alkalinity</td> <td>Major Ions - Sulfide</td> <td>Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium</td> <td rowspan="7" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of containers</td> <td rowspan="7">Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)</td> <td rowspan="7">Other:</td> <td rowspan="7">Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed</td> </tr> <tr> <td>Address: City: State, Zip: Phone: Email: Project Name: Site:</td> <td>TAT Requested (days):</td> <td>PO #:</td> <td>WO #:</td> <td>Project #: 18019922</td> <td>SSOW#:</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=Water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform (MS) / MSD (Yes or No)</th> <th>App III Metals: B, Ca</th> <th>CI, F, SO & TDS (EPA 300 & SM 2640C)</th> <th>App IV Metals (EPA 60207/476): Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Li,Hg,Mo,Se,Ti</th> <th>Radium 226 & 228 (SW-846 9316/9920)</th> <th>Major Ions - 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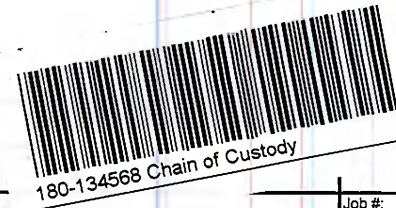


Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

S Environment Testing
 America



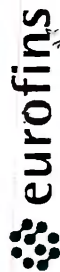
Client Information		Sampler: <u>T. Johnson</u>		Lab PM: <u>Brown, Shali</u>											
Client Contact SCS Contacts		Phone: <u>770-594-5498</u>		E-Mail: <u>shali.brown@eurofinset.com</u>											
Company: GA Power		Due Date Requested:		Analys. Requested											
Address: 241 Ralph McGill Blvd SE		TAT Requested (days):		Job #:											
City: Atlanta		PO #:		Preservation Codes:											
State, Zip: GA, 30308		WO #:		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)											
Phone: 404-506-7116(Tel)		Project #: 18019922		Other:											
Email: SCS Contacts		SSOW#:		Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed											
Project Name: CCR - Plant Wansley Ash Pond															
Site:															
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Preservation Code:															
WGWA-3	3/1/22	1543	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.59
WGWA-4	2/28/22	1628	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= 7.14
WGWA-5	3/1/22	1307	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.47
WGWA-6	3/1/22	1437	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= 7.86
Dvp-1	3/1/22	—	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH=
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Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:									
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:								
Relinquished by: <u>[Signature]</u>			Date/Time: <u>3-2-22/10:05</u>		Company: <u>Acc</u>		Received by: <u>Michael Marked</u>			Date/Time: <u>3-2-22 16:11</u>		Company:			
Relinquished by: <u>Michael Marked</u>			Date/Time: <u>3-2-22 16:11</u>		Company:		Received by:			Date/Time:		Company:			
Relinquished by:			Date/Time:		Company:		Received by:			Date/Time:		Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:											

Do not lift using this tag.



180-134564 Waybill

Part # 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CAFE3510
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068 REF: DEPT:
THU1 P01



Uncorrected temp 3.9 °C
Thermometer ID 16

CF 0 Initials MB

PT-WI-SR-001 effective 11/8/18

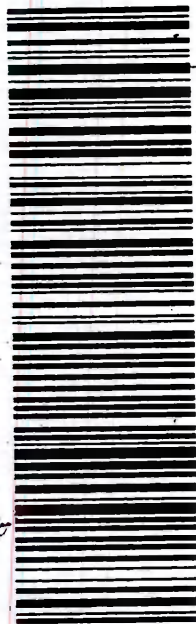


THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

1 of 3
TRK# 5220 7116 5983
0201
MASTER

NA AGCA

15238
PA-US
PIT





Do not lift using this tag.

Part # 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

RT 98
FZ
1 10:30
A 5994
03.03

ORIGIN ID: LIYA (678) 986-99
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

U2MAR22
NET WT: 51.65 LB
CAD: 859116/CAFES10

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: PO:



Thermometer ID

CF

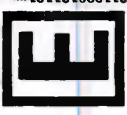
Initials

PT-VL-SR-001 effective 1/18/18

DEPT:

Thermometer ID

FedEx
Express



2 of 3
MPS# 5220 7116 5994
0263
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

0201

NA AGCA

15238
PA-US
PIT





Do not lift using this tag.

Part# 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CAFE9510

BILL THIRD PARTY

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7058
THU: 11/18/18
PT:

REF:

DEPT:



Uncorrected temp
Thermometer ID

3.7 °C

16

CF 0 Initials Mes

PT-WI-SR-001 effective 11/8/18

FedEx
Express



J211020121101AN

3 of 3

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 5220 7116 6008

Mstr# 5220 7116 5983

0201

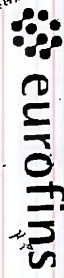
NA AGCA

15238
PA-US PIT



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4/6/2022 (Rev. 1)



Environment Testing
TestAmerica

Part # 159469-434 MTW EXP 09/22

ORIGIN ID: LTYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA RTL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

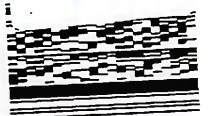
SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CFE3510
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDDC PARK
PITTSBURGH PA 15238

(412) 983-7068 REF: 3EPT1

Uncorrected temp 3.9 °C
Thermometer ID 16

CF 0 Initials Mb
PT-MI-SR-001 effective 11/6/18

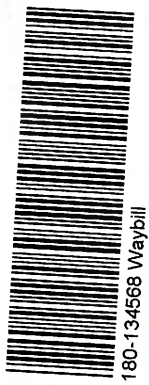
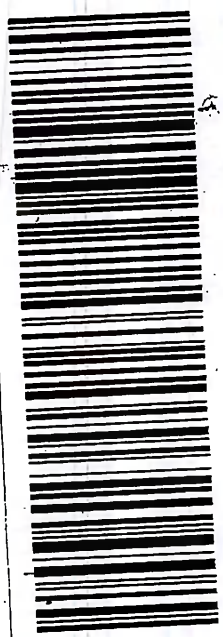


1 of 3
TRK# 5220 7116 5983
MASTER

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

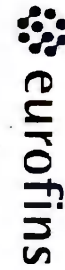
15238
PA-US PIT



180-134568 Waybill



Do not lift using this tag.



Environment Testing
TestAmerica

ORIGIN ID: L1YA (679) 988-994
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
NET WT: 61.65 LB
CPO: 859116CAFEAS10
BILL THIRD PARTY



TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 863-7068 REF: DEPT1

Thermometer ID
CF *D* Initials *AS*
PT-W-SR-001 effective 1/8/18

ART1011210201127

MPS# 2 of 3
0263 5220 7116 5994
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PA-US PIT



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TESTAMERICA®

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Environment Testing
TestAmerica

Part # 159469-434MTW EXP 09/22

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CRD: 859116/CAFES510

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: 4121
PT: 1

DEPT:



Uncorrected temp
Thermometer ID

2.72
16

CFE Initials

Ms

PT-Mt-SR-001 effective 11/8/18



44101120120121

3 of 3

MPS# 5220 7116 6008
02631
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PA-US
PIT



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-1

Login Number: 134564

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-1

Login Number: 134568

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-134564-2

Client Project/Site: Wansley Ash Pond

Sampling Event: Wansley Ash Pond Initial Scan Event

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/5/2022 5:34:47 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

LINKS

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results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	20
QC Association Summary	21
Chain of Custody	22
Receipt Checklists	32

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Job ID: 180-134564-2

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134564-2**

Receipt

The samples were received on 3/3/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.7°C, 3.7°C and 3.9°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium 226 batch 554072 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWA-1 (180-134564-1), EB-1 (180-134564-2), FB-1 (180-134564-3), WGWA-2 (180-134564-4), WGWA-3 (180-134568-1), WGWA-4 (180-134568-2), WGWA-5 (180-134568-3), WGWA-6 (180-134568-4), Dup-1 (180-134568-5), (LCS 160-554072/1-A), (MB 160-554072/18-A), (500-213202-D-1-A) and (500-213202-C-1-A DU)

Method 9320_Ra228: Radium 228 batch 554704 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWA-1 (180-134564-1), EB-1 (180-134564-2), FB-1 (180-134564-3), WGWA-2 (180-134564-4), WGWA-3 (180-134568-1), WGWA-4 (180-134568-2), WGWA-5 (180-134568-3), WGWA-6 (180-134568-4), Dup-1 (180-134568-5), (LCS 160-554074/1-A), (MB 160-554074/18-A), (500-213202-D-1-B) and (500-213202-C-1-B DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-05-22
ANAB	Dept. of Energy	L2305.01	04-05-22
ANAB	ISO/IEC 17025	L2305	04-05-22
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134564-1	WGWA-1	Water	03/01/22 12:11	03/03/22 09:30
180-134564-2	EB-1	Water	03/01/22 13:00	03/03/22 09:30
180-134564-3	FB-1	Water	03/01/22 14:50	03/03/22 09:30
180-134564-4	WGWA-2	Water	03/01/22 15:10	03/03/22 09:30
180-134568-1	WGWA-3	Water	03/01/22 15:43	03/03/22 09:30
180-134568-2	WGWA-4	Water	02/28/22 16:28	03/03/22 09:30
180-134568-3	WGWA-5	Water	03/01/22 13:07	03/03/22 09:30
180-134568-4	WGWA-6	Water	03/01/22 14:37	03/03/22 09:30
180-134568-5	Dup-1	Water	03/01/22 00:01	03/03/22 09:30

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Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.39 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:46	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.39 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:08	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.91 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:46	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.91 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:08	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.83 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			998.83 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			748.29 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			748.29 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.99 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.99 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.88 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			996.88 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			746.48 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			746.48 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.48 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.48 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Lab Sample ID: 180-134568-5

Date Collected: 03/01/22 00:01

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.86 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:48	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.86 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:10	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

LPS = Lauren Szostak

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0445	U	0.168	0.168	1.00	0.345	pCi/L	03/08/22 09:40	03/30/22 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/08/22 09:40	03/30/22 10:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00473	U	0.192	0.192	1.00	0.350	pCi/L	03/08/22 10:07	03/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/08/22 10:07	03/29/22 14:08	1
Y Carrier	82.2		40 - 110					03/08/22 10:07	03/29/22 14:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0398	U	0.255	0.255	2.00	0.350	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0575	U	0.181	0.181	1.00	0.374	pCi/L	03/08/22 09:40	03/30/22 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 09:40	03/30/22 10:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.213	U	0.247	0.248	1.00	0.407	pCi/L	03/08/22 10:07	03/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 10:07	03/29/22 14:08	1
Y Carrier	85.6		40 - 110					03/08/22 10:07	03/29/22 14:08	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.155	U	0.306	0.307	2.00	0.407	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0286	U	0.129	0.129	1.00	0.253	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0457	U	0.220	0.220	1.00	0.406	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	80.7		40 - 110					03/08/22 10:07	03/29/22 14:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0171	U	0.255	0.255	2.00	0.406	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0441	U	0.259	0.259	1.00	0.525	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0966	U	0.285	0.285	1.00	0.542	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	80.4		40 - 110					03/08/22 10:07	03/29/22 14:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.141	U	0.385	0.385	2.00	0.542	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0623	U	0.129	0.129	1.00	0.295	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.300	U	0.244	0.246	1.00	0.385	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	82.6		40 - 110					03/08/22 10:07	03/29/22 14:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.238	U	0.276	0.278	2.00	0.385	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.340		0.221	0.223	1.00	0.302	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.962		0.303	0.315	1.00	0.388	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	86.0		40 - 110					03/08/22 10:07	03/29/22 14:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.30		0.375	0.386	2.00	0.388	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149	U	0.236	0.237	1.00	0.407	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.279	U	0.311	0.312	1.00	0.510	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	81.9		40 - 110					03/08/22 10:07	03/29/22 14:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.428	U	0.390	0.392	2.00	0.510	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.88		0.569	0.668	1.00	0.292	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.98		0.609	0.821	1.00	0.451	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	85.2		40 - 110					03/08/22 10:07	03/29/22 14:09	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	9.86		0.833	1.06	2.00	0.451	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: Dup-1
Date Collected: 03/01/22 00:01
Date Received: 03/03/22 09:30

Lab Sample ID: 180-134568-5
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0303	U	0.158	0.158	1.00	0.305	pCi/L	03/08/22 09:40	03/30/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 09:40	03/30/22 10:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0512	U	0.295	0.295	1.00	0.516	pCi/L	03/08/22 10:07	03/29/22 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 10:07	03/29/22 14:10	1
Y Carrier	82.2		40 - 110					03/08/22 10:07	03/29/22 14:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0815	U	0.335	0.335	2.00	0.516	pCi/L		04/01/22 17:15	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-554072/18-A
Matrix: Water
Analysis Batch: 557860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554072

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2469	U	0.187	0.188	1.00	0.272	pCi/L	03/08/22 09:40	03/30/22 12:39	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	91.6		40 - 110				03/08/22 09:40		03/30/22 12:39	

Lab Sample ID: LCS 160-554072/1-A
Matrix: Water
Analysis Batch: 557860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554072

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.18		1.25	1.00	0.293	pCi/L	90	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.6		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-554074/18-A
Matrix: Water
Analysis Batch: 557757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554074

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1819	U	0.266	0.267	1.00	0.445	pCi/L	03/08/22 10:07	03/29/22 14:11	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	91.6		40 - 110				03/08/22 10:07		03/29/22 14:11	
Y Carrier	84.5		40 - 110				03/08/22 10:07		03/29/22 14:11	

Lab Sample ID: LCS 160-554074/1-A
Matrix: Water
Analysis Batch: 557757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554074

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.75	8.723		1.03	1.00	0.367	pCi/L	100	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.6		40 - 110						
Y Carrier	85.2		40 - 110						

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Rad

Prep Batch: 554072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	PrecSep-21	
180-134564-2	EB-1	Total/NA	Water	PrecSep-21	
180-134564-3	FB-1	Total/NA	Water	PrecSep-21	
180-134564-4	WGWA-2	Total/NA	Water	PrecSep-21	
180-134568-1	WGWA-3	Total/NA	Water	PrecSep-21	
180-134568-2	WGWA-4	Total/NA	Water	PrecSep-21	
180-134568-3	WGWA-5	Total/NA	Water	PrecSep-21	
180-134568-4	WGWA-6	Total/NA	Water	PrecSep-21	
180-134568-5	Dup-1	Total/NA	Water	PrecSep-21	
MB 160-554072/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554072/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

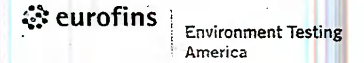
Prep Batch: 554074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	PrecSep_0	
180-134564-2	EB-1	Total/NA	Water	PrecSep_0	
180-134564-3	FB-1	Total/NA	Water	PrecSep_0	
180-134564-4	WGWA-2	Total/NA	Water	PrecSep_0	
180-134568-1	WGWA-3	Total/NA	Water	PrecSep_0	
180-134568-2	WGWA-4	Total/NA	Water	PrecSep_0	
180-134568-3	WGWA-5	Total/NA	Water	PrecSep_0	
180-134568-4	WGWA-6	Total/NA	Water	PrecSep_0	
180-134568-5	Dup-1	Total/NA	Water	PrecSep_0	
MB 160-554074/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-554074/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

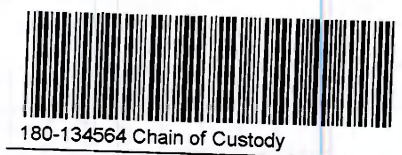
Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information		Sampler: <u>J. Benisford</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:	
Company: GA Power		Due Date Requested:		Analysis Requested Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/SD (Yes or No) <input type="checkbox"/> App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2640C) App IV Metals (EPA 60207/476): Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Li,Hg,Mo,Se,Ti Radium 226 & 228 (SW-846 9316/9920) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium		Job #:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Address: 241 Ralph McGill Blvd SE		TAT Requested (days):				Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed			
City: Atlanta		PO #:							
State, Zip: GA, 30308		WO #:							
Phone: 404-506-7116(Tel)		Project #: 18019922							
Email: SCS Contacts		SSOW#:							
Project Name: CCR - Plant Wansley Ash Pond									
Site:									
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Preservation Code:	
<u>WGWA-1</u>		<u>3/1/22</u>		<u>1211</u>		<u>G</u>		<u>Water</u>	
<u>EB-1</u>		<u>3/1/22</u>		<u>1300</u>		<u>G</u>		<u>Water</u>	
<u>FB-1</u>		<u>3/1/22</u>		<u>1450</u>		<u>G</u>		<u>Water</u>	
<u>WGWA-2</u>		<u>3/1/22</u>		<u>1510</u>		<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	
						<u>G</u>		<u>Water</u>	



Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-7-22/1605</u>		Company: <u>ACC</u>		Received by: <u>Michael Meckel</u>	
Relinquished by: <u>Michael Meckel</u>		Date/Time: <u>3-2-22 16:11</u>		Company:		Received by: <u>[Signature]</u>	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

S Environment Testing
 America



Client Information		Sampler: <i>T. Johnson</i>		Lab PM: Brown, Shali												
Client Contact SCS Contacts		Phone: <i>770-594-5498</i>		E-Mail: shali.brown@eurofinset.com												
Company: GA Power		Due Date Requested:		Analys. Requested												
Address: 241 Ralph McGill Blvd SE		TAT Requested (days):		Job #:												
City: Atlanta		PO #:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)												
State, Zip: GA, 30308		WO #:														
Phone: 404-506-7116(Tel)		Project #: 18019922														
Email: SCS Contacts		SSOW#:														
Project Name: CCR - Plant Wansley Ash Pond				Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed												
Site:																
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207470): Sb,As,Ba,Be,Cd,Cr,Cu,Pb,LI,Hg,Mo,Se,Ti	Radium 226 & 228 (SW-646 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of Containers	
				Preservation Code:												
<i>WGWA-3</i>		<i>3/1/22</i>	<i>1543</i>	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= <i>5.59</i>
<i>WGWA-4</i>		<i>2/28/22</i>	<i>1628</i>	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= <i>7.14</i>
<i>WGWA-5</i>		<i>3/1/22</i>	<i>1307</i>	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= <i>5.47</i>
<i>WGWA-6</i>		<i>3/1/22</i>	<i>1437</i>	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH= <i>7.86</i>
<i>Dvp-1</i>		<i>3/1/22</i>	<i>—</i>	G	Water	N	N	✓	✓	✓	✓	✓	✓	✓	5	pH=
				G	Water											pH=
				G	Water											pH=
				G	Water											pH=
				G	Water											pH=
				G	Water											pH=
				G	Water											pH=
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:										
Empty Kit Relinquished by:			Date:	Time:		Method of Shipment:										
Relinquished by: <i>T. Johnson</i>		Date/Time: <i>3-2-22/10:05</i>	Company: <i>Acc</i>		Received by: <i>Michael Marked</i>		Date/Time: <i>3-2-22 16:11</i>	Company:								
Relinquished by: <i>Michael Marked</i>		Date/Time: <i>3-2-22 16:11</i>	Company:		Received by:		Date/Time:	Company:								
Relinquished by:		Date/Time:	Company:		Received by:		Date/Time:	Company:								
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:												

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Do not lift using this tag.



180-134564 Waybill

Part # 159469-434 MTW EXP 09/22



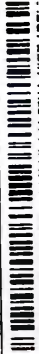
Environment Testing
TestAmerica

ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CAFE3510
BILL THIRD PARTY

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: (412) 983-7068
PT: 11/18/16



Uncorrected temp 3.9 °C
Thermometer ID 16

CF 0 Initials Mo

PT-WI-SR-001 effective 11/8/16

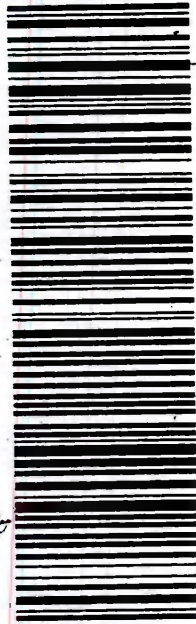


THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

1 of 3
TRK# 5220 7116 5983
0201
MASTER

NA AGCA

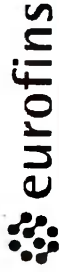
15238
PA-US
PIT





Do not lift using this tag.

Part # 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

RT 98
FZ
1 10:30
A 5994
03.03

ORIGIN ID: LIYA (678) 988-99
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

U2MAR22
NET WT: 51.65 LB
CAD: 859116/CAFE510

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: 0263

DEPT:



Thermometer ID

CF

Initials

PT-VL-SR-001 effective 1/18/18

Thermometer ID

FedEx
Express



2 of 3
MPS# 5220 7116 5994
0263

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

0201

Mstr# 5220 7116 5983

NA AGCA

15238
PA-US
PIT



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Do not lift using this tag.

Part# 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWGT: 61.65 LB
CAD: 859116/CAFE9510

BILL THIRD PARTY

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7058
THU: 11/18/18
PT:

REF:

DEPT:



Uncorrected temp
Thermometer ID

3.7 °C

16

CF 0 Initials Mes

PT-WI-SR-001 effective 11/8/18

FedEx
Express



J211020121101AN

3 of 3

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 5220 7116 6008

Mstr# 5220 7116 5983

0201

NA AGCA

15238

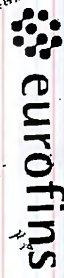
PA-US

PIT



Do not lift using this tag.

4/5/2022



Environment Testing
TestAmerica

Part # 159469-434 MTW EXP 09/22

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA RTL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CFE3510
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDDC PARK
PITTSBURGH PA 15238

(412) 983-7068 REF: 3EPT1

3EPT1

Uncorrected temp
Thermometer ID

39 °C
T6

CF Initials MB



121102012110101

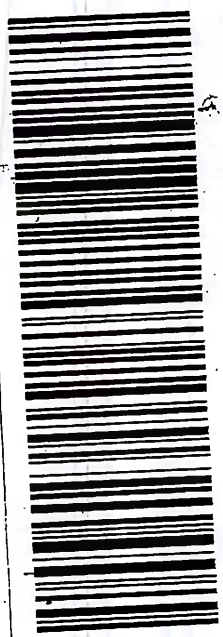
PT-MI-SR-001 effective 11/01/18

1 of 3
TRK# 5220 7116 5983
MASTER

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

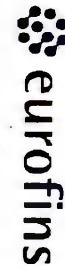
15238
PA-US PIT



180-134568 Waybill



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Environment Testing
TestAmerica



ORIGIN ID: L1YA (679) 988-994
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
NET WT: 61.85 LB
CPO: 8591167CAFEAS10

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 863-7068 REF: 1

REF: 1

DEPT: 1

Thermometer ID

CF

Initials

PT-W-SR-001 effective 1/8/18



AR1011210201127

MPS# 2 of 3
0263 5220 7116 5994
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PA-US PIT



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TESTAMA®

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Environment Testing
TestAmerica

Part # 159469-434MTW EXP 09/22

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CRD: 859116/CAFES510

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
REF: (412) 983-7068
DEPT: 4121

(412) 983-7068
REF: 4121
DEPT: 4121

Uncorrected temp
Thermometer ID

CFE Initials Mes

PT-Mt-SR-001 effective 11/8/18



3 of 3
MPS# 5220 7116 6008
02631
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT
0201

NA AGCA

15238
PA-US
PIT



Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shali		Carrier Tracking No(s): 180-456303.1							
Client Contact: Shipping/Receiving		Phone: E-Mail: Shali.Brown@Eurofins.com		Page: 1 of 1							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 180-134564-2							
Address: 13715 Rider Trail North,		Due Date Requested: 4/6/2022		Preservation Codes:							
City: Earth City		TAT Requested (days):		A - HCL							
State Zip: MO, 63045		PO #:		M - Hexane							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		N - None							
Email:		Project #:		O - AshNaO2							
Project Name: Wansley Ash Pond		18019922		P - Na2O4S							
Site: Wansley CCR		SSOW#:		Q - Na2SO3							
				R - Na2SO3							
				S - H2SO4							
				T - TSP Dodecahydrate							
				U - Acetone							
				V - MCAA							
				W - pH 4-5							
				L - EDA							
				Other:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Water/Oil, ST=Stress, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	R228R228_GFPc (MOD) Local Method	9315_Ra226/PreSep_21 (MOD) Copy Analytes	9320_Ra228/PreSep_0 (MOD) Copy Analytes	Total Number of Containers	Special Instructions/Note:
WGWA-1 (180-134564-1)	3/1/22	12:11 Eastern	Water	Water	X	X	X	X	X	2	
EB-1 (180-134564-2)	3/1/22	13:00 Eastern	Water	Water	X	X	X	X	X	2	
FB-1 (180-134564-3)	3/1/22	14:50 Eastern	Water	Water	X	X	X	X	X	2	
WGWA-2 (180-134564-4)	3/1/22	15:10 Eastern	Water	Water	X	X	X	X	X	2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/resistmatrix, being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>											
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____</p> <p>Primary Deliverable Rank: 2</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> <p>Time: _____ Method of Shipment: _____</p>											
Relinquished by: <i>[Signature]</i>		Date: 3/4/22		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date/Time: MAR 07 2022 0830		Company: ESTASR	
Relinquished by: <i>[Signature]</i>		Date/Time: _____		Company: _____		Received by: <i>[Signature]</i>		Date/Time: _____		Company: _____	
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____		Date/Time: _____		Company: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____							

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)			Sampler:	Lab P#:	Carrier Tracking No(s):						
Client Contact:			Brown, Shali	Brown, Shali	COC No: 180-456303.1						
Shipping/Receiving:			Phone:	E-Mail:	Page:						
Company:			Shali.Brown@Eurofinset.com	Shali.Brown@Eurofinset.com	Page 1 of 1						
Address:			Accreditations Required (See note):								
13715 Rider Trail North,			Job #: 180-134568-2								
City:			Analysis Requested								
Earth City			A - HCL								
State, Zip:			B - NaOH								
MO, 63045			C - Zn Acetate								
Phone:			D - Nitric Acid								
314-298-8566(Tel) 314-298-8757(Fax)			E - NaHSO4								
Email:			F - MeOH								
Project #:			G - Amchlor								
18019922			H - Ascorbic Acid								
Site:			I - Ice								
Wansley CCR			J - DI Water								
			K - EDTA								
			L - EDA								
			Other:								
			M - Hexane								
			N - None								
			O - AsNaO2								
			P - Na2O4S								
			Q - Na2SO3								
			R - Na2SO3								
			S - H2SO4								
			T - TSP Dodecahydrate								
			U - Acetone								
			V - MCAA								
			W - pH 4-5								
			Z - other (specify)								
Sample Identification - Client ID (Lab ID)			Special Instructions/Note:								
WGWA-3 (180-134568-1)	Sample Date:	Sample Time:	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Sewer, Oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra26Ra228 GFC/ (MOD) Local Method	9315 Ra226/PrecSep_21 (MOD) Copy Analytes	9320 Ra228/PrecSep_0 (MOD) Copy Analytes	Total Number of containers	
	3/1/22	15:43 Eastern	Water	Water	X	X	X	X	X	2	
	2/28/22	16:28 Eastern	Water	Water	X	X	X	X	X	2	
	3/1/22	13:07 Eastern	Water	Water	X	X	X	X	X	2	
	3/1/22	14:37 Eastern	Water	Water	X	X	X	X	X	2	
	3/1/22	00:01 Eastern	Water	Water	X	X	X	X	X	2	
Dup-1 (180-134568-5)											
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>											
Possible Hazard Identification											
<input type="checkbox"/> Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Special Instructions/QC Requirements:											
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2								
Empty Kit Relinquished by:			Date:		Method of Shipment:						
Relinquished by: [Signature]			5-4-22 12:00		Received by: [Signature]						
Relinquished by:					Received by: Juana Worthington						
Relinquished by:					Received by: [Signature]						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:								
			Cooler Temperature(s) °C and Other Remarks:								

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-2

Login Number: 134564

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-2

Login Number: 134564

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/07/22 12:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-2

Login Number: 134568

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-2

Login Number: 134568

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/07/22 12:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-134881-1
Client Project/Site: Wansley Ash Pond

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
3/23/2022 6:05:54 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	15
QC Association Summary	20
Chain of Custody	23
Receipt Checklists	26

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Job ID: 180-134881-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134881-1**

Receipt

The samples were received on 3/9/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4°C and 2.5°C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-18 (180-134881-1). The container labels list GWA-18, while the COC lists WGWA-18. The id on the COC was used.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for analytical batch 180-391628 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22 *
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134881-1	WGWA-18	Water	03/03/22 12:40	03/09/22 10:30
180-134881-2	WGWC-8	Water	03/03/22 16:45	03/09/22 10:30
180-134881-3	WGWC-9	Water	03/03/22 15:25	03/09/22 10:30
180-134881-4	EB-2	Water	03/03/22 16:15	03/09/22 10:30

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Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 20:23	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:19	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:27	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 14:48	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 01:34	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391896	03/03/22 12:40	FDS	TAL PIT

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 19:52	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		5			391628	03/15/22 20:08	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:23	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:28	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 15:02	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/11/22 23:15	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391896	03/03/22 16:45	FDS	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 19:37	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:38	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:29	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 15:06	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 01:41	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391896	03/03/22 15:25	FDS	TAL PIT

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 19:22	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:41	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:30	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 15:11	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:00	CMT	TAL PIT

Laboratory References:

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

HEK = Hope Kiesling

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

CMT = Cassandra Tlumac

FDS = Sampler Field

HEK = Hope Kiesling

JCR = Jessica Rodgers

JRB = James Burzio

RJR = Ron Rosenbaum

RSK = Robert Kurtz

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0	F1	1.0	0.71	mg/L			03/15/22 20:23	1
Fluoride	0.078	J F1	0.10	0.026	mg/L			03/15/22 20:23	1
Sulfate	8.5	F1	1.0	0.76	mg/L			03/15/22 20:23	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:19	1
Barium	0.013		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:19	1
Boron	0.10	B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:19	1
Calcium	6.1		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:19	1
Cobalt	0.0014	J	0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:19	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:19	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:19	1
Sodium	4.2		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:19	1
Potassium	2.7		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:19	1
Iron	0.22		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:19	1
Magnesium	1.1		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:19	1
Manganese	0.14		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.4	J	3.0	2.1	mg/L		03/10/22 13:00	03/10/22 14:48	1
Total Dissolved Solids	43		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	25		5.0	5.0	mg/L			03/12/22 01:34	1
Bicarbonate Alkalinity as CaCO3	25		5.0	5.0	mg/L			03/12/22 01:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.94				SU			03/03/22 12:40	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		1.0	0.71	mg/L			03/15/22 19:52	1
Fluoride	0.19		0.10	0.026	mg/L			03/15/22 19:52	1
Sulfate	250		5.0	3.8	mg/L			03/15/22 20:08	5

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:23	1
Arsenic	0.0014		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:23	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:23	1
Beryllium	0.0027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:23	1
Boron	2.7	B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:23	1
Calcium	88		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:23	1
Cobalt	0.00030	J	0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:23	1
Lead	0.00052	J	0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:23	1
Lithium	0.014		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:23	1
Selenium	0.0038	J	0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:23	1
Sodium	39		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:23	1
Potassium	9.7		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:23	1
Iron	0.058		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:23	1
Magnesium	22		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:23	1
Manganese	0.011		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/10/22 13:00	03/10/22 15:02	1
Total Dissolved Solids	530		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	5.6		5.0	5.0	mg/L			03/11/22 23:15	1
Bicarbonate Alkalinity as CaCO3	5.6		5.0	5.0	mg/L			03/11/22 23:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.21				SU			03/03/22 16:45	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.71	mg/L			03/15/22 19:37	1
Fluoride	1.0		0.10	0.026	mg/L			03/15/22 19:37	1
Sulfate	58		1.0	0.76	mg/L			03/15/22 19:37	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0080		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:38	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:38	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:38	1
Beryllium	0.00036	J	0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:38	1
Boron	0.62	B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:38	1
Calcium	8.6		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:38	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:38	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:38	1
Lithium	0.030		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:38	1
Molybdenum	0.0027	J	0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:38	1
Selenium	0.0021	J	0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:38	1
Sodium	21		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:38	1
Potassium	1.3		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:38	1
Iron	<0.028		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:38	1
Magnesium	2.5		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:38	1
Manganese	0.019		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.6	J	3.0	2.1	mg/L		03/10/22 13:00	03/10/22 15:06	1
Total Dissolved Solids	140		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	17		5.0	5.0	mg/L			03/12/22 01:41	1
Bicarbonate Alkalinity as CaCO3	17		5.0	5.0	mg/L			03/12/22 01:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.86				SU			03/03/22 15:25	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/15/22 19:22	1
Fluoride	0.043	J	0.10	0.026	mg/L			03/15/22 19:22	1
Sulfate	0.88	J	1.0	0.76	mg/L			03/15/22 19:22	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:41	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:41	1
Boron	0.066	J B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:41	1
Calcium	<0.13		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:41	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:41	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:41	1
Sodium	<0.18		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:41	1
Potassium	<0.16		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:41	1
Iron	<0.028		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:41	1
Magnesium	<0.050		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:41	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.4		3.0	2.1	mg/L		03/10/22 13:00	03/10/22 15:11	1
Total Dissolved Solids	<10		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 02:00	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 02:00	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-391628/7
Matrix: Water
Analysis Batch: 391628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.71		1.0	0.71	mg/L			03/15/22 10:39	1
Fluoride	<0.026		0.10	0.026	mg/L			03/15/22 10:39	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/22 10:39	1

Lab Sample ID: LCS 180-391628/6
Matrix: Water
Analysis Batch: 391628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

Lab Sample ID: 180-134881-1 MS
Matrix: Water
Analysis Batch: 391628

Client Sample ID: WGWA-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.078	J F1	2.50	2.89	F1	mg/L		113	90 - 110
Sulfate	8.5	F1	50.0	64.9	F1	mg/L		113	90 - 110

Lab Sample ID: 180-134881-1 MSD
Matrix: Water
Analysis Batch: 391628

Client Sample ID: WGWA-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
Chloride	2.0	F1	50.0	55.5		mg/L		107	90 - 110	4	20
Fluoride	0.078	J F1	2.50	2.74		mg/L		106	90 - 110	5	20
Sulfate	8.5	F1	50.0	61.8		mg/L		107	90 - 110	5	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-391645/1-A
Matrix: Water
Analysis Batch: 391939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391645

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:12	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:12	1
Boron	0.0730	J	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:12	1
Calcium	<0.13		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:12	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-391645/1-A
Matrix: Water
Analysis Batch: 391939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00074		0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:12	1
Sodium	<0.18		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:12	1
Potassium	<0.16		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:12	1
Iron	<0.028		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:12	1
Magnesium	<0.050		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:12	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:12	1

Lab Sample ID: LCS 180-391645/2-A
Matrix: Water
Analysis Batch: 391939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.260		mg/L		104	80 - 120
Arsenic	1.00	0.997		mg/L		100	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.512		mg/L		102	80 - 120
Boron	1.25	1.22		mg/L		98	80 - 120
Cadmium	0.500	0.513		mg/L		103	80 - 120
Calcium	25.0	25.9		mg/L		104	80 - 120
Chromium	0.500	0.511		mg/L		102	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Lead	0.500	0.516		mg/L		103	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Molybdenum	0.500	0.510		mg/L		102	80 - 120
Selenium	1.00	0.984		mg/L		98	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Sodium	25.0	25.8		mg/L		103	80 - 120
Potassium	25.0	25.7		mg/L		103	80 - 120
Iron	5.00	5.19		mg/L		104	80 - 120
Magnesium	25.0	25.4		mg/L		102	80 - 120
Manganese	0.500	0.494		mg/L		99	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-392235/1-A
Matrix: Water
Analysis Batch: 392705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:07	1

Lab Sample ID: LCS 180-392235/2-A
Matrix: Water
Analysis Batch: 392705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00230		mg/L		92	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-391154/1-A
Matrix: Water
Analysis Batch: 391172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/10/22 13:00	03/10/22 14:39	1

Lab Sample ID: LCS 180-391154/2-A
Matrix: Water
Analysis Batch: 391172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	12.6	12.0		mg/L		95	85 - 115

Lab Sample ID: 180-134881-1 MS
Matrix: Water
Analysis Batch: 391172

Client Sample ID: WGWA-18
Prep Type: Total/NA
Prep Batch: 391154

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	2.4	J	12.6	13.3		mg/L		86	75 - 125

Lab Sample ID: 180-134881-1 MSD
Matrix: Water
Analysis Batch: 391172

Client Sample ID: WGWA-18
Prep Type: Total/NA
Prep Batch: 391154

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Sulfide	2.4	J	12.6	13.5		mg/L		88	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-391178/2
Matrix: Water
Analysis Batch: 391178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/10/22 16:13	1

Lab Sample ID: LCS 180-391178/1
Matrix: Water
Analysis Batch: 391178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	469	450		mg/L		96	85 - 115

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-391369/30
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-391369/54
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1

Lab Sample ID: MB 180-391369/6
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/11/22 19:00	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 19:00	1

Lab Sample ID: LCS 180-391369/29
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	265	251		mg/L		95	90 - 110

Lab Sample ID: LCS 180-391369/53
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	265	248		mg/L		94	90 - 110

Lab Sample ID: LLCS 180-391369/28
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	13.8		mg/L		87	75 - 125

Lab Sample ID: LLCS 180-391369/52
Matrix: Water
Analysis Batch: 391369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	15.1		mg/L		95	75 - 125

Lab Sample ID: 180-134881-2 DU
Matrix: Water
Analysis Batch: 391369

Client Sample ID: WGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	5.6		6.18		mg/L		9	20
Bicarbonate Alkalinity as CaCO3	5.6		6.18		mg/L		9	20

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-134881-4 DU
Matrix: Water
Analysis Batch: 391369

Client Sample ID: EB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0		<5.0		mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

HPLC/IC

Analysis Batch: 391628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-134881-2	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-134881-2	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-134881-3	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-134881-4	EB-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-391628/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-391628/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134881-1 MS	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-134881-1 MSD	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 391645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total Recoverable	Water	3005A	
180-134881-2	WGWC-8	Total Recoverable	Water	3005A	
180-134881-3	WGWC-9	Total Recoverable	Water	3005A	
180-134881-4	EB-2	Total Recoverable	Water	3005A	
MB 180-391645/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-391645/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 391939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total Recoverable	Water	EPA 6020B	391645
180-134881-2	WGWC-8	Total Recoverable	Water	EPA 6020B	391645
180-134881-3	WGWC-9	Total Recoverable	Water	EPA 6020B	391645
180-134881-4	EB-2	Total Recoverable	Water	EPA 6020B	391645
MB 180-391645/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391645
LCS 180-391645/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391645

Prep Batch: 392235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	7470A	
180-134881-2	WGWC-8	Total/NA	Water	7470A	
180-134881-3	WGWC-9	Total/NA	Water	7470A	
180-134881-4	EB-2	Total/NA	Water	7470A	
MB 180-392235/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-392235/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 392705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	EPA 7470A	392235
180-134881-2	WGWC-8	Total/NA	Water	EPA 7470A	392235
180-134881-3	WGWC-9	Total/NA	Water	EPA 7470A	392235
180-134881-4	EB-2	Total/NA	Water	EPA 7470A	392235
MB 180-392235/1-A	Method Blank	Total/NA	Water	EPA 7470A	392235
LCS 180-392235/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	392235

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

General Chemistry

Prep Batch: 391154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	9030B	
180-134881-2	WGWC-8	Total/NA	Water	9030B	
180-134881-3	WGWC-9	Total/NA	Water	9030B	
180-134881-4	EB-2	Total/NA	Water	9030B	
MB 180-391154/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-391154/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134881-1 MS	WGWA-18	Total/NA	Water	9030B	
180-134881-1 MSD	WGWA-18	Total/NA	Water	9030B	

Analysis Batch: 391172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	EPA 9034	391154
180-134881-2	WGWC-8	Total/NA	Water	EPA 9034	391154
180-134881-3	WGWC-9	Total/NA	Water	EPA 9034	391154
180-134881-4	EB-2	Total/NA	Water	EPA 9034	391154
MB 180-391154/1-A	Method Blank	Total/NA	Water	EPA 9034	391154
LCS 180-391154/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	391154
180-134881-1 MS	WGWA-18	Total/NA	Water	EPA 9034	391154
180-134881-1 MSD	WGWA-18	Total/NA	Water	EPA 9034	391154

Analysis Batch: 391178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	SM 2540C	
180-134881-2	WGWC-8	Total/NA	Water	SM 2540C	
180-134881-3	WGWC-9	Total/NA	Water	SM 2540C	
180-134881-4	EB-2	Total/NA	Water	SM 2540C	
MB 180-391178/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-391178/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 391369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	SM2320 B	
180-134881-2	WGWC-8	Total/NA	Water	SM2320 B	
180-134881-3	WGWC-9	Total/NA	Water	SM2320 B	
180-134881-4	EB-2	Total/NA	Water	SM2320 B	
MB 180-391369/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/54	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391369/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-391369/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/52	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134881-2 DU	WGWC-8	Total/NA	Water	SM2320 B	
180-134881-4 DU	EB-2	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 391896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	Field Sampling	
180-134881-2	WGWC-8	Total/NA	Water	Field Sampling	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 391896 (Continued)

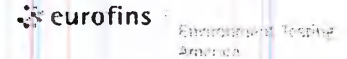
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-3	WGWC-9	Total/NA	Water	Field Sampling	

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Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information						Analysis Requested											COC No:												
Sampler: Anna Schnittker, Toby Johnson, Hunter Auld						Lab PM: Brown, Shali						Carrier Tracking No(s):					Page:												
Client Contact: SCS Contacts						Phone: 770-594-5998						E-Mail: shali.brown@eurofinset.com					Job #:												
Company: GA Power						<div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 2em; margin-left: 100px;">244-ATLANTA</div>											Total Number of containers												
Address: 241 Ralph McGill Blvd SE																		Due Date Requested:	Preservation Codes:										
City: Atlanta																		TAT Requested (days):	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)										
State, Zip: GA, 30308																		PO#:	Other:										
Phone: 404-506-7116(Tel)																		WO#:	Special Instructions/Note:										
Email: SCS Contacts																		Project #:	Major Ions to include Alkalinity, Sulfide, and Metals as listed										
Project Name: CCR - Plant Wansley Ash Pond																		SSOW#:											
Site:																													
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, etc-Tissue, Air)	Field Filtered Sample (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & 6M 2540C)	App IV Metals (EPA 60207/270): Sp, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 & 228 (SW-846 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Other:	Total Number of containers															
WGWA-18	3/3/22	12:40	G	Water	N	N	x	x	x	x	x	x		5	pH= 5.94														
WGWC-8	3/3/22	16:45	G	Water	N	N	x	x	x	x	x	x		5	pH= 5.21														
WGWC-9	3/3/22	15:25	G	Water	N	N	x	x	x	x	x	x		5	pH= 5.86														
EB-2	3/3/22	16:15	G	Water	N	N	x	x	x	x	x	x		5	pH= N/A														
			G	Water											pH=														
			G	Water											pH=														
			G	Water											pH=														
			G	Water											pH=														
			G	Water											pH=														
			G	Water											pH=														
			G	Water											pH=														



180-134881 Chain of Custody

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment: 39-22 PW			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
<i>[Signature]</i>		3/8/22		ETA		<i>[Signature]</i>		10/22		ETA	
<i>[Signature]</i>		16:25		ETM		<i>[Signature]</i>		10:30		ETA	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							
<input type="checkbox"/> Yes <input type="checkbox"/> No											

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Do not use using this tag.

RT 6
FZ



180-134881 Waybill



Environment Testing
TestAmerica

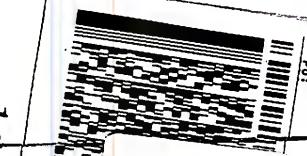
Part # 159489-434 MTW EXP 09/22

ORGIN ID: IYA (878) 966-9991
 ERIC TAYLOR
 EUROFINS TESTING AMERICA
 301 REGENCY PARKWAY NW
 SUITE 900
 NORROSS, GA 30071
 UNITED STATES US

SHIP DATE: 09MAR22
 ACTWT: 60.65 LB
 CAD: 859116/CHF3510
 BILL THIRD PARTY

(412) 963-7068
 REF: 15238

TO SAMPLE RECEIVING:
 EUROFINS TESTAMERICA PITTSBURGH
 30 ALPHA DR.
 RIG PARK
 PITTSBURGH PA 15238



Uncorrected temp
 Thermometer ID
 CF G Initials [Signature]



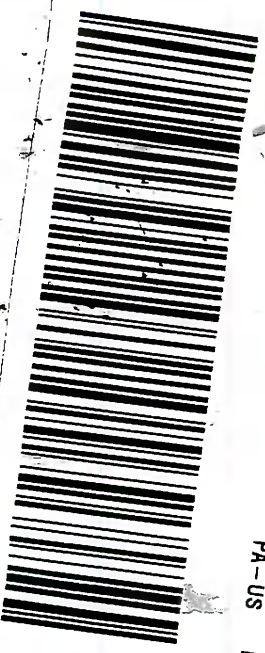
J211020121101uv

TRK# 102
 0201 5220
 # MASTER # 1116 7037

WED - 09 MAR 10:30A
 PRIORITY OVERNIGHT

NA AGCA

15238
 PA-US PIT





Environment Testing
TestAmerica

Part # 159469-494 WITH EXP 09/22

ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 08MAR22
RTWG1: 60.65 LB
CND: 859116/CAFE3510

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
NOV (412) 983-7068 REF1
DEPT1

Thermometer ID

CF Initials, JS

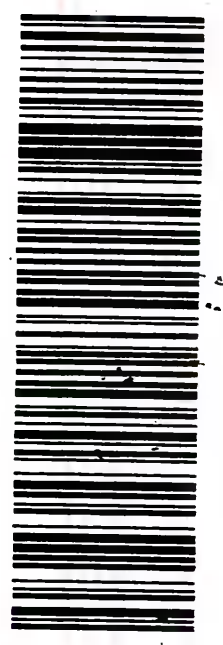
PT-M-SR-001 effective 11/8/18

FedEx Express

AR1011210204127

2 of 2
MPS# 5220 7116 7048
0263
Mstr# 5220 7116 7037
0201
WED - UV WARR 10:30A
PRIORITY OVERNIGHT

NA AGCA
15238
PA-US PIT



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134881-1

Login Number: 134881

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-134881-2
Client Project/Site: Wansley Ash Pond

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/11/2022 6:07:04 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	10
QC Sample Results	14
QC Association Summary	15
Chain of Custody	16
Receipt Checklists	20

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Job ID: 180-134881-2

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134881-2**

Comments

No additional comments.

Receipt

The samples were received on 3/9/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.5° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-18 (180-134881-1). The container labels list GWA-18, while the COC lists WGWA-18. The id on the COC was used.

RAD

Methods 903.0, 9315: Radium-226 batch 555104

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWA-18 (180-134881-1), WGWC-8 (180-134881-2), WGWC-9 (180-134881-3), EB-2 (180-134881-4), (LCS 160-555104/1-A) and (MB 160-555104/18-A)

Methods 904.0, 9320: Radium-228 batch 555108

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWA-18 (180-134881-1), WGWC-8 (180-134881-2), WGWC-9 (180-134881-3), EB-2 (180-134881-4), (LCS 160-555108/1-A) and (MB 160-555108/18-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134881-1	WGWA-18	Water	03/03/22 12:40	03/09/22 10:30
180-134881-2	WGWC-8	Water	03/03/22 16:45	03/09/22 10:30
180-134881-3	WGWC-9	Water	03/03/22 15:25	03/09/22 10:30
180-134881-4	EB-2	Water	03/03/22 16:15	03/09/22 10:30

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Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.18 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.18 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558069	03/31/22 13:33	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			748.51 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			748.51 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558069	03/31/22 13:33	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.97 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.97 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558069	03/31/22 13:33	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.05 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1001.05 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558239	03/31/22 13:38	EMH	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

LPS = Lauren Szostak

Batch Type: Analysis

CAH = Chris Hough

CLP = Cassandra Park

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120	U	0.107	0.108	1.00	0.160	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.355	U	0.291	0.293	1.00	0.463	pCi/L	03/14/22 10:59	03/31/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					03/14/22 10:59	03/31/22 13:33	1
Y Carrier	86.0		40 - 110					03/14/22 10:59	03/31/22 13:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.474		0.310	0.312	2.00	0.463	pCi/L		04/11/22 15:35	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.524		0.198	0.204	1.00	0.204	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.65		0.551	0.603	1.00	0.585	pCi/L	03/14/22 10:59	03/31/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					03/14/22 10:59	03/31/22 13:33	1
Y Carrier	83.4		40 - 110					03/14/22 10:59	03/31/22 13:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.18		0.585	0.637	2.00	0.585	pCi/L		04/11/22 15:35	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0872	U	0.0851	0.0855	1.00	0.132	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.344	U	0.274	0.275	1.00	0.433	pCi/L	03/14/22 10:59	03/31/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/14/22 10:59	03/31/22 13:33	1
Y Carrier	84.1		40 - 110					03/14/22 10:59	03/31/22 13:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.431	U	0.287	0.288	2.00	0.433	pCi/L		04/11/22 15:35	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0841	U	0.0823	0.0826	1.00	0.125	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0860	U	0.287	0.287	1.00	0.526	pCi/L	03/14/22 10:59	03/31/22 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					03/14/22 10:59	03/31/22 13:38	1
Y Carrier	83.7		40 - 110					03/14/22 10:59	03/31/22 13:38	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00189	U	0.299	0.299	2.00	0.526	pCi/L		04/11/22 15:35	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-555104/18-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555104

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04039	U	0.0736	0.0737	1.00	0.131	pCi/L	03/14/22 10:20	04/05/22 10:01	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110				03/14/22 10:20		04/05/22 10:01	1

Lab Sample ID: LCS 160-555104/1-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555104

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.293		1.03	1.00	0.178	pCi/L	82	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	91.6		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-555108/18-A
Matrix: Water
Analysis Batch: 558239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555108

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.1688	U	0.230	0.231	1.00	0.441	pCi/L	03/14/22 10:59	03/31/22 13:40	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110				03/14/22 10:59		03/31/22 13:40	1
Y Carrier	85.2		40 - 110				03/14/22 10:59		03/31/22 13:40	1

Lab Sample ID: LCS 160-555108/1-A
Matrix: Water
Analysis Batch: 558069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555108

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	0.875	0.8747		0.315	1.00	0.411	pCi/L	100	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	91.6		40 - 110						
Y Carrier	84.9		40 - 110						

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Rad

Prep Batch: 555104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	PrecSep-21	
180-134881-2	WGWC-8	Total/NA	Water	PrecSep-21	
180-134881-3	WGWC-9	Total/NA	Water	PrecSep-21	
180-134881-4	EB-2	Total/NA	Water	PrecSep-21	
MB 160-555104/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555104/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

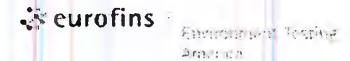
Prep Batch: 555108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	PrecSep_0	
180-134881-2	WGWC-8	Total/NA	Water	PrecSep_0	
180-134881-3	WGWC-9	Total/NA	Water	PrecSep_0	
180-134881-4	EB-2	Total/NA	Water	PrecSep_0	
MB 160-555108/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555108/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information			Sampler: Anna Schnittker, Toby Johnson, Hunter Auld				Lab PM: Brown, Shali				Carrier Tracking No(s):		COC No:																
Client Contact: SCS Contacts			Phone: 770-594-5998				E-Mail: shali.brown@eurofinset.com				Page:																		
Company: GA Power							Analysis Requested				Job #:		Preservation Codes:																
Address: 241 Ralph McGill Blvd SE			Due Date Requested:										A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)														
City: Atlanta			TAT Requested (days):												Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed														
State, Zip: GA, 30308																													
Phone: 404-506-7116(Tel)			PO#:																										
Email: SCS Contacts			WO#:																										
Project Name: CCR - Plant Wansley Ash Pond			Project #: 18019922																										
Site:			SSOW#:																										
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, T=tissue, A=air)		Field Filtered Sample (Yes or No)	App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & 6M 2540C) App IV Metals (EPA 6020/2470): Pb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9316/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	244-ATLANTA		Total Number of containers															
WGWA-18		3/3/22		12:40		G Water		N N										X X X X		5		pH= 5.94							
WGWC-8		3/3/22		16:45		G Water		N N										X X X X		5		pH= 5.21							
WGWC-9		3/3/22		15:25		G Water		N N										X X X X		5		pH= 5.86							
EB-2		3/3/22		16:15		G Water		N N										X X X X		5		pH= N/A							
						G Water																pH=							
						G Water																pH=							
						G Water																pH=							
						G Water																pH=							
						G Water								pH=															
						G Water								pH=															
						G Water								pH=															
						G Water								pH=															
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested: I, II, III, IV, Other (specify):										Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:					Date:					Time:					Method of Shipment: 39-22 PW														
Relinquished by:					Date/Time: 3/8/22					Company: ETR					Received by: J Watson					Date/Time: 3/10/22					Company: VAP/ETI				
Relinquished by: [Signature]					Date/Time: 3/8/22					Company: ETR					Received by: [Signature]					Date/Time: 10:130					Company:				
Relinquished by: [Signature]					Date/Time:					Company:					Received by:					Date/Time:					Company:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No.:					Cooler Temperature(s) °C and Other Remarks:																			

- 1
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- 9
- 10
- 11
- 12
- 13

Do not use using this tag.



180-134881 Waybill



Environment Testing
TestAmerica

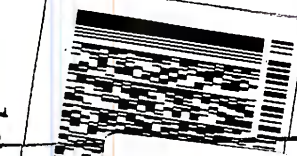
Part # 152489-434 MTW EXP 09/22

ORGIN ID: IYA (878) 966-9991
 ERIGE TAYLOR
 EUROFINS TESTING AMERICA
 301 REGENCY PARKWAY NW
 SUITE 900
 NORROSS, GA 30071
 UNITED STATES US

SHIP DATE: 09MAR22
 ACTING WT: 60.65 LB
 CAD: 859116/CHF3510
 BILL THIRD PARTY

(412) 963-7068
 REF: 15238

TO SAMPLE RECEIVING:
 EUROFINS TESTAMERICA PITTSBURGH
 30 ALPHA DR.
 RIG PARK
 PITTSBURGH PA 15238



Uncorrected temp
 Thermometer ID
 CF G Initials [Signature]
 PT-MI-SR-001 effective 11/8/18



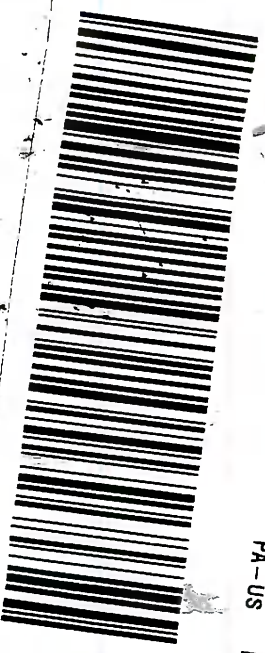
J211020121101uv

TRK# 102
 0201 5220
 # MASTER # 1116 7037

WED - 09 MAR 10:30A
 PRIORITY OVERNIGHT

NA AGCA

15238
 PA-US PIT





Environment Testing
TestAmerica

Part # 159469-494 WITH EXP 09/22

ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 08MAR22
RTGWT: 60.65 LB
CNO: 859116/CAFE3510

BILL THIRD PARTY

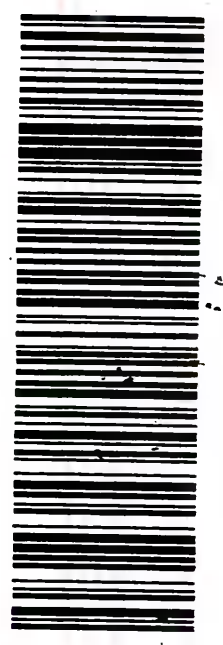
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF1
DEPT1

491011210204127

Thermometer ID
Checked Temp
CF Initials, JS
PT-M-SR-001 effective 11/8/18

2 of 2
MPS# 5220 7116 7048
0263
Mstr# 5220 7116 7037
0201
WED - UV WARR 10:30A
PRIORITY OVERNIGHT

NA AGCA
15238
PA-US PIT



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-456692.1
Client Contact: Shali Brown@Eurofins.com		E-Mail: Shali Brown@Eurofins.com	State of Origin: Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-134881-2		
Address: 13715 Rider Trail North,		Job #:		
City: Earth City		Preservation Codes:		
State, Zip: MO, 63045		A - HCL B - Hexane C - NaOH D - AshNaO2 E - Na2OAS F - Na2SO3 G - MeOH H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - None N - None O - AshNaO2 P - Na2OAS Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Other:		
Email:				
Project #: 18019922				
Site: Wansley CCR				
Due Date Requested: 4/12/2022				
TAT Requested (days):				
PO #:				
WO #:				
Sample Date				
Sample Time				
Sample Type (C=Comp, G=grab)				
Matrix (W=water, S=solid, O=wastewat, ST=stabil, AS=air)				
Preservation Code:				
Field Filtered Sample (Yes or No)				
Perform MS/MSD (Yes or No)				
9320_Ra228/Presep_0 Radium 228				
9315_Ra226/Presep_21 Radium 226				
Ra226Ra228_GFP/Combined Radium-226 and Radium-228				
Special Instructions/Note:				
Sample Identification - Client ID (Lab ID)				
WGWA-18 (180-134881-1)	3/3/22 12:40 Eastern	Water	X	2
WGWC-8 (180-134881-2)	3/3/22 16:45 Eastern	Water	X	2
WGWC-9 (180-134881-3)	3/3/22 13:25 Eastern	Water	X	2
EB-2 (180-134881-4)	3/3/22 16:15 Eastern	Water	X	2
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 2				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months				
Special Instructions/QC Requirements:				
Time: Method of Shipment:				
Received by: FE				
Date/Time: 3-11-22 0909				
Company: E7A STL				
Received by: [Signature]				
Date/Time:				
Company:				
Cooler Temperature(s) °C and Other Remarks:				
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No				



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134881-2

Login Number: 134881

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134881-2

Login Number: 134881

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 03/11/22 12:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-134767-1
Client Project/Site: Plant Wansley Ash Pond
Revision: 3

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
8/16/2022 8:50:18 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

LINKS

Review your project
results through



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Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	10
QC Sample Results	15
QC Association Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Job ID: 180-134767-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134767-1**

Comments

081622 Revised report to change job description name from Wansley Landfill Supplemental to Wansley Ash Pond at client request. This report replaces the report previously issued on 032522.
032522 Revised report to report to the reporting limit instead of MDL at client request. This report replaces the report previously issued on 032222.
032222 Revised report to correct sample time from 1240 to 1410 for WCR(-0.6) (180-134767-3). This report replaces the report previously issued on 031722.

Receipt

The samples were received on 3/5/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.1° C, 2.9° C, 2.9° C, 4.2° C, 4.4° C and 4.4° C.

Metals

Method Filtration: The following samples were not filtered within 15 minutes of sample collection as required by the method: WCR(+0.1) (180-134767-1), WCR(+1.9) (180-134767-2) and WCR(-0.6) (180-134767-3). The samples were filtered prior to analysis at the laboratory, and the results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	05-19-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	05-19-22
Florida	NELAP	E871008	05-05-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	05-19-22
Kansas	NELAP	E-10350	03-30-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	05-29-22
Louisiana	NELAP	04041	05-19-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	05-19-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-22
New Jersey	NELAP	PA005	05-19-22
New York	NELAP	11182	03-31-22
North Carolina (WW/SW)	State	434	05-19-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	05-19-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	05-19-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-19-22
Virginia	NELAP	10043	05-19-22
West Virginia DEP	State	142	05-19-22
Wisconsin	State	998027800	08-31-22

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134767-1	WCR(+0.1)	Water	03/04/22 13:45	03/05/22 09:00
180-134767-2	WCR(+1.9)	Water	03/04/22 12:30	03/05/22 09:00
180-134767-3	WCR(-0.6)	Water	03/04/22 14:10	03/05/22 09:00
180-134767-4	EQUIPMENT BLANK	Water	03/04/22 13:30	03/05/22 09:00
180-134767-5	Dup	Water	03/04/22 00:01	03/05/22 09:00

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
Filtration	Sample Filtration	None	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: WCR(+0.1)

Lab Sample ID: 180-134767-1

Date Collected: 03/04/22 13:45

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			250 mL	1.0 mL	391207	03/11/22 06:51	RGM	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Dissolved	Analysis	EPA 6020B		1			391756	03/15/22 14:59	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 14:55	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	Field Sampling		1			391685	03/04/22 13:45	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: WCR(+1.9)

Lab Sample ID: 180-134767-2

Date Collected: 03/04/22 12:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			250 mL	1.0 mL	391207	03/11/22 06:51	RGM	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Dissolved	Analysis	EPA 6020B		1			391756	03/15/22 15:21	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:17	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	Field Sampling		1			391685	03/04/22 12:30	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: WCR(-0.6)

Lab Sample ID: 180-134767-3

Date Collected: 03/04/22 14:10

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			250 mL	1.0 mL	391207	03/11/22 06:51	RGM	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Dissolved	Analysis	EPA 6020B		1			391756	03/15/22 15:28	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:25	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	Field Sampling		1			391685	03/04/22 12:40	FDS	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 180-134767-4

Date Collected: 03/04/22 13:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:32	RSK	EET PIT

Instrument ID: A

Client Sample ID: Dup

Lab Sample ID: 180-134767-5

Date Collected: 03/04/22 00:01

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:36	RSK	EET PIT

Instrument ID: A

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Filtration

RGM = Rebecca Manns

Batch Type: Prep

KFS = Kelly Shannon

Batch Type: Analysis

FDS = Sampler Field

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: WCR(+0.1)

Lab Sample ID: 180-134767-1

Date Collected: 03/04/22 13:45

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:55	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:55	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:59	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.26				SU			03/04/22 13:45	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: WCR(+1.9)

Lab Sample ID: 180-134767-2

Date Collected: 03/04/22 12:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:17	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:17	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:21	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.88				SU			03/04/22 12:30	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: WCR(-0.6)

Lab Sample ID: 180-134767-3

Date Collected: 03/04/22 14:10

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:25	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:25	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:28	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.31				SU			03/04/22 12:40	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 180-134767-4

Date Collected: 03/04/22 13:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:32	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:32	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: Dup

Lab Sample ID: 180-134767-5

Date Collected: 03/04/22 00:01

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:36	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:36	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-391389/1-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:12	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:12	1

Lab Sample ID: LCS 180-391389/2-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: PB 180-391207/1-C
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 391389

Analyte	PB PB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:16	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:16	1

Lab Sample ID: LCS 180-391207/2-C
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.463		mg/L		93	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-134767-1

Metals

Filtration Batch: 391207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Dissolved	Water	Filtration	
180-134767-2	WCR(+1.9)	Dissolved	Water	Filtration	
180-134767-3	WCR(-0.6)	Dissolved	Water	Filtration	
PB 180-391207/1-C	Method Blank	Dissolved	Water	Filtration	
LCS 180-391207/2-C	Lab Control Sample	Dissolved	Water	Filtration	

Prep Batch: 391389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Dissolved	Water	3005A	391207
180-134767-1	WCR(+0.1)	Total Recoverable	Water	3005A	
180-134767-2	WCR(+1.9)	Dissolved	Water	3005A	391207
180-134767-2	WCR(+1.9)	Total Recoverable	Water	3005A	
180-134767-3	WCR(-0.6)	Dissolved	Water	3005A	391207
180-134767-3	WCR(-0.6)	Total Recoverable	Water	3005A	
180-134767-4	EQUIPMENT BLANK	Total Recoverable	Water	3005A	
180-134767-5	Dup	Total Recoverable	Water	3005A	
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	3005A	
PB 180-391207/1-C	Method Blank	Dissolved	Water	3005A	391207
LCS 180-391207/2-C	Lab Control Sample	Dissolved	Water	3005A	391207
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 391756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Dissolved	Water	EPA 6020B	391389
180-134767-1	WCR(+0.1)	Total Recoverable	Water	EPA 6020B	391389
180-134767-2	WCR(+1.9)	Dissolved	Water	EPA 6020B	391389
180-134767-2	WCR(+1.9)	Total Recoverable	Water	EPA 6020B	391389
180-134767-3	WCR(-0.6)	Dissolved	Water	EPA 6020B	391389
180-134767-3	WCR(-0.6)	Total Recoverable	Water	EPA 6020B	391389
180-134767-4	EQUIPMENT BLANK	Total Recoverable	Water	EPA 6020B	391389
180-134767-5	Dup	Total Recoverable	Water	EPA 6020B	391389
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391389
PB 180-391207/1-C	Method Blank	Dissolved	Water	EPA 6020B	391389
LCS 180-391207/2-C	Lab Control Sample	Dissolved	Water	EPA 6020B	391389
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391389

Field Service / Mobile Lab

Analysis Batch: 391685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Total/NA	Water	Field Sampling	
180-134767-2	WCR(+1.9)	Total/NA	Water	Field Sampling	
180-134767-3	WCR(-0.6)	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

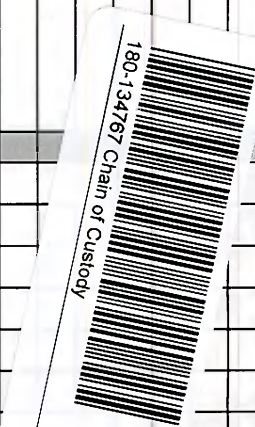
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

244-ATLANTA



Client Information				Lab PM:			Carrier Tracking No(s):			COC No:		
Client Contact: SCS Contacts				Sampler: <u>H. Auld</u> Phone: <u>770-594-5998</u>			Brown, Shali E-Mail: <u>shali.brown@eurofinsnet.com</u>			Page:		
Company: GA Power				Address: 241 Ralph McGill Blvd SE			Analysis Requested Lithium <u>AMS/P 2/7/23</u> Dissolved Metals (Be, Li)			Job #:		
City: Atlanta				Due Date Requested:						Preservation Codes:		
State, Zip: GA, 30308				TAT Requested (days):						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		
Phone: 404-506-7116(Tel)				PO #:						Total Number of containers: *Lab to filter dissolved metals Special Instructions/Note: pH = 7.26 pH = 6.88 pH = 7.31		
Email: SCS Contacts				WO #:								
Project Name: CCR - Plant Wansley Landfill - Supplemental				Project #: 18019922								
Site:				SSOW#:								
Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Other:		
									D			
WCR(+0.1)				3-4-22	1345	G	Water	N	N	X	X	
WCR(+1.9)				3-4-22	1230	G	Water	N	N	X	X	
WCR(-0.6)				3-4-22	1410	G	Water	N	N	X	X	
Equipment Blank				3-4-22	1330	G	W	N	N	X		
Dup				3-4-22		G	W	N	N	X		



Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:					

Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:		
Relinquished by: <u>H. Auld</u>			Date/Time: <u>3-4-22/1706</u>			Company: <u>ACC</u>			Received by: <u>[Signature]</u>		
Relinquished by: <u>[Signature]</u>			Date/Time: <u>3/4/22 17:10</u>			Company: <u>EM</u>			Received by: <u>[Signature]</u>		
Relinquished by: <u>[Signature]</u>			Date/Time: _____			Company: _____			Received by: _____		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: _____	Cooler Temperature(s) °C and Other Remarks:
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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134767-1

Login Number: 134767

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-139452-1

Client Project/Site: Plant Wansley Ash Pond
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
6/29/2022 10:52:25 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

LINKS

Review your project
results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	21
QC Association Summary	25
Chain of Custody	28
Receipt Checklists	30

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Job ID: 180-139452-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-139452-1

062922 Revised report to reverse sample ID's for the following samples because the labels were switched during labeling at receipt: WGWC-22 (now 180-139452-6) and WGWC-23 (now 180-139452-5) This report replaces the report previously issued on 062022.

Receipt

The samples were received on 6/9/2022 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8°C and 4.4°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22 *
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-20-22
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-22 *
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22 *
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-23
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22 *
Virginia	NELAP	10043	09-14-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-23
Georgia	State	12028 (NJ)	06-30-22
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-22
New York	NELAP	11452	04-01-23
Pennsylvania	NELAP	68-00522	02-28-23
Rhode Island	State	LAO00376	12-31-22
USDA	US Federal Programs	P330-20-00244	11-03-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-139452-1	Dup-1	Water	06/07/22 00:00	06/09/22 15:17
180-139452-2	WGWC-21	Water	06/06/22 16:05	06/09/22 15:17
180-139452-3	EB-1	Water	06/07/22 09:45	06/09/22 15:17
180-139452-4	WGWC-20	Water	06/07/22 10:05	06/09/22 15:17
180-139452-5	WGWC-23	Water	06/06/22 15:05	06/09/22 15:17
180-139452-6	WGWC-22	Water	06/07/22 12:10	06/09/22 15:17
180-139452-7	WGWC-24	Water	06/06/22 13:30	06/09/22 15:17
180-139452-8	WGWC-25	Water	06/07/22 11:10	06/09/22 15:17
180-139452-9	FB-1	Water	06/06/22 13:45	06/09/22 15:17

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: Dup-1

Date Collected: 06/07/22 00:00

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 13:27	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 14:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:36	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Date Collected: 06/06/22 16:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 13:42	OXG	TAL EDI
Instrument ID: IC 2										
Total/NA	Analysis	300.0		4			850067	06/15/22 16:42	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 14:38	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:37	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			401796	06/06/22 16:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Date Collected: 06/07/22 09:45

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 14:12	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 14:42	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:38	RJR	TAL PIT
Instrument ID: HGY										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: EB-1

Lab Sample ID: 180-139452-3

Date Collected: 06/07/22 09:45

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT

Client Sample ID: WGWC-20

Lab Sample ID: 180-139452-4

Date Collected: 06/07/22 10:05

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: IC 2		1			850067	06/15/22 14:27	OXG	TAL EDI
Total/NA	Analysis	300.0 Instrument ID: IC 2		5			850067	06/15/22 16:56	OXG	TAL EDI
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			402303	06/16/22 14:46	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			402129	06/15/22 16:39	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			401796	06/07/22 10:05	FDS	TAL PIT

Client Sample ID: WGWC-23

Lab Sample ID: 180-139452-5

Date Collected: 06/06/22 15:05

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: IC 2		1			850067	06/15/22 14:42	OXG	TAL EDI
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			402303	06/16/22 14:57	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			402129	06/15/22 16:40	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			401796	06/07/22 12:10	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-139452-6

Date Collected: 06/07/22 12:10

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 14:57	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:41	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			401796	06/06/22 15:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-139452-7

Date Collected: 06/06/22 13:30

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 15:12	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:26	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:42	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			401796	06/06/22 13:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 15:27	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:43	RJR	TAL PIT
Instrument ID: HGY										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401647	06/10/22 18:21	JCR	TAL PIT
Total/NA	Analysis	Field Sampling		1			401796	06/07/22 11:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Lab Sample ID: 180-139452-9

Date Collected: 06/06/22 13:45

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 15:42	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:44	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401647	06/10/22 18:21	JCR	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL EDI

Batch Type: Analysis

OXG = Olivia Guerrero

Lab: TAL PIT

Batch Type: Prep

EMR = Elizabeth Rarick

RJR = Ron Rosenbaum

Batch Type: Analysis

FDS = Sampler Field

JCR = Jessica Rodgers

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: Dup-1
 Date Collected: 06/07/22 00:00
 Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.039	mg/L			06/15/22 13:27	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 13:27	1
Sulfate	22		1.0	0.095	mg/L			06/15/22 13:27	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:35	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:35	1
Barium	0.35		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:35	1
Beryllium	0.00041	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:35	1
Boron	0.78		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:35	1
Calcium	15		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:35	1
Cobalt	0.0044		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:35	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:35	1
Lithium	0.0044	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:35	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:35	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			06/10/22 18:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-21

Lab Sample ID: 180-139452-2

Date Collected: 06/06/22 16:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48		1.0	0.039	mg/L			06/15/22 13:42	1
Fluoride	1.9		0.10	0.019	mg/L			06/15/22 13:42	1
Sulfate	140		4.0	0.38	mg/L			06/15/22 16:42	4

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:38	1
Arsenic	0.00083	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:38	1
Barium	0.0079	J	0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:38	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:38	1
Boron	0.13		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:38	1
Calcium	58		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:38	1
Cobalt	0.0010	J	0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:38	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:38	1
Lithium	0.051		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:38	1
Molybdenum	0.032		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	670		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.69				SU			06/06/22 16:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: EB-1

Lab Sample ID: 180-139452-3

Date Collected: 06/07/22 09:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.039		1.0	0.039	mg/L			06/15/22 14:12	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 14:12	1
Sulfate	<0.095		1.0	0.095	mg/L			06/15/22 14:12	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:42	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:42	1
Barium	<0.0031		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:42	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:42	1
Boron	<0.060		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:42	1
Calcium	<0.13		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:42	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:42	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:42	1
Lithium	<0.00083		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:42	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:42	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:42	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/10/22 18:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-139452-4

Date Collected: 06/07/22 10:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		5.0	0.20	mg/L			06/15/22 16:56	5
Fluoride	2.5		0.10	0.019	mg/L			06/15/22 14:27	1
Sulfate	280		5.0	0.48	mg/L			06/15/22 16:56	5

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:46	1
Arsenic	0.00033	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:46	1
Barium	<0.0031		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:46	1
Beryllium	0.0089		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:46	1
Boron	2.8		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:46	1
Calcium	140		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:46	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:46	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:46	1
Lithium	0.12		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:46	1
Selenium	0.0014	J	0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:46	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.39				SU			06/07/22 10:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-139452-5

Date Collected: 06/06/22 15:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.039	mg/L			06/15/22 14:42	1
Fluoride	0.028	J	0.10	0.019	mg/L			06/15/22 14:42	1
Sulfate	5.3		1.0	0.095	mg/L			06/15/22 14:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0013	J B	0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:57	1
Barium	0.0097	J	0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:57	1
Beryllium	0.0011	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:57	1
Boron	<0.060		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:57	1
Calcium	4.5		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:57	1
Lithium	0.0020	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:57	1
Selenium	0.0018	J	0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.73				SU			06/07/22 12:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-139452-6

Date Collected: 06/07/22 12:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.039	mg/L			06/15/22 14:57	1
Fluoride	0.37		0.10	0.019	mg/L			06/15/22 14:57	1
Sulfate	96		1.0	0.095	mg/L			06/15/22 14:57	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00054	J B	0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 15:22	1
Arsenic	0.00029	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:22	1
Barium	0.025		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:22	1
Beryllium	0.00055	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:22	1
Boron	0.39		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:22	1
Calcium	19		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:22	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:22	1
Lithium	0.0093		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:22	1
Selenium	0.0047	J	0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.41				SU			06/06/22 15:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-139452-7

Date Collected: 06/06/22 13:30

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		1.0	0.039	mg/L			06/15/22 15:12	1
Fluoride	0.43		0.10	0.019	mg/L			06/15/22 15:12	1
Sulfate	67		1.0	0.095	mg/L			06/15/22 15:12	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 15:26	1
Arsenic	0.00054	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:26	1
Barium	0.032		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:26	1
Beryllium	0.0062		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:26	1
Boron	0.64		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:26	1
Cadmium	0.00030	J	0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:26	1
Calcium	22		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:26	1
Cobalt	0.042		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:26	1
Lead	0.00047	J	0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:26	1
Lithium	0.0044	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:26	1
Thallium	0.00052	J	0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.52				SU			06/06/22 13:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.039	mg/L			06/15/22 15:27	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 15:27	1
Sulfate	22		1.0	0.095	mg/L			06/15/22 15:27	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 15:29	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:29	1
Barium	0.34		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:29	1
Beryllium	0.00030	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:29	1
Boron	0.78		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:29	1
Calcium	15		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:29	1
Cobalt	0.0043		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:29	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:29	1
Lithium	0.0040	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:29	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:29	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	10	mg/L			06/10/22 18:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.32				SU			06/07/22 11:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Client Sample ID: FB-1

Lab Sample ID: 180-139452-9

Date Collected: 06/06/22 13:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.039		1.0	0.039	mg/L			06/15/22 15:42	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 15:42	1
Sulfate	<0.095		1.0	0.095	mg/L			06/15/22 15:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 15:33	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:33	1
Barium	0.023		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:33	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:33	1
Boron	0.074 J		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:33	1
Calcium	<0.13		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:33	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:33	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:33	1
Lithium	<0.00083		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:33	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:33	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/10/22 18:21	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-850067/3
Matrix: Water
Analysis Batch: 850067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.039		1.0	0.039	mg/L			06/15/22 11:27	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 11:27	1
Sulfate	<0.095		1.0	0.095	mg/L			06/15/22 11:27	1

Lab Sample ID: LCS 460-850067/5
Matrix: Water
Analysis Batch: 850067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.20	2.89		mg/L		90	90 - 110
Fluoride	1.60	1.57		mg/L		98	90 - 110
Sulfate	4.80	4.62		mg/L		96	90 - 110

Lab Sample ID: LCSD 460-850067/6
Matrix: Water
Analysis Batch: 850067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.20	2.88		mg/L		90	90 - 110	0	15
Fluoride	1.60	1.57		mg/L		98	90 - 110	0	15
Sulfate	4.80	4.59		mg/L		96	90 - 110	1	15

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-401922/1-A
Matrix: Water
Analysis Batch: 402303

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000882	J	0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:27	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:27	1
Barium	<0.0031		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:27	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:27	1
Boron	<0.060		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:27	1
Calcium	<0.13		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:27	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:27	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:27	1
Lithium	<0.00083		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:27	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:27	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:27	1

Lab Sample ID: LCS 180-401922/2-A
Matrix: Water
Analysis Batch: 402303

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.247		mg/L		99	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-401922/2-A
Matrix: Water
Analysis Batch: 402303

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.917		mg/L		92	80 - 120
Barium	1.00	0.924		mg/L		92	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Boron	1.25	1.15		mg/L		92	80 - 120
Cadmium	0.500	0.468		mg/L		94	80 - 120
Calcium	25.0	25.4		mg/L		101	80 - 120
Chromium	0.500	0.461		mg/L		92	80 - 120
Cobalt	0.500	0.468		mg/L		94	80 - 120
Lead	0.500	0.472		mg/L		94	80 - 120
Lithium	0.500	0.456		mg/L		91	80 - 120
Molybdenum	0.500	0.474		mg/L		95	80 - 120
Selenium	1.00	0.942		mg/L		94	80 - 120
Thallium	1.00	0.994		mg/L		99	80 - 120

Lab Sample ID: 180-139452-5 MS
Matrix: Water
Analysis Batch: 402303

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0013	J B	0.250	0.251		mg/L		100	75 - 125
Arsenic	<0.00028		1.00	0.925		mg/L		93	75 - 125
Barium	0.0097	J	1.00	0.962		mg/L		95	75 - 125
Beryllium	0.0011	J	0.500	0.495		mg/L		99	75 - 125
Boron	<0.060		1.25	1.17		mg/L		93	75 - 125
Cadmium	<0.00022		0.500	0.480		mg/L		96	75 - 125
Calcium	4.5		25.0	29.2		mg/L		99	75 - 125
Chromium	<0.0015		0.500	0.478		mg/L		96	75 - 125
Cobalt	<0.00026		0.500	0.478		mg/L		96	75 - 125
Lead	<0.00017		0.500	0.481		mg/L		96	75 - 125
Lithium	0.0020	J	0.500	0.464		mg/L		92	75 - 125
Molybdenum	<0.00061		0.500	0.482		mg/L		96	75 - 125
Selenium	0.0018	J	1.00	0.937		mg/L		93	75 - 125
Thallium	<0.00047		1.00	0.996		mg/L		100	75 - 125

Lab Sample ID: 180-139452-5 MSD
Matrix: Water
Analysis Batch: 402303

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0013	J B	0.250	0.242		mg/L		96	75 - 125	3	20
Arsenic	<0.00028		1.00	0.918		mg/L		92	75 - 125	1	20
Barium	0.0097	J	1.00	0.936		mg/L		93	75 - 125	3	20
Beryllium	0.0011	J	0.500	0.488		mg/L		97	75 - 125	2	20
Boron	<0.060		1.25	1.13		mg/L		91	75 - 125	3	20
Cadmium	<0.00022		0.500	0.472		mg/L		94	75 - 125	2	20
Calcium	4.5		25.0	29.2		mg/L		98	75 - 125	0	20
Chromium	<0.0015		0.500	0.465		mg/L		93	75 - 125	3	20
Cobalt	<0.00026		0.500	0.471		mg/L		94	75 - 125	1	20
Lead	<0.00017		0.500	0.473		mg/L		95	75 - 125	2	20

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-139452-5 MSD
Matrix: Water
Analysis Batch: 402303

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0020	J	0.500	0.462		mg/L		92	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.475		mg/L		95	75 - 125	1	20
Selenium	0.0018	J	1.00	0.928		mg/L		93	75 - 125	1	20
Thallium	<0.00047		1.00	0.979		mg/L		98	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-401830/1-A
Matrix: Water
Analysis Batch: 402129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:24	1

Lab Sample ID: LCS 180-401830/2-A
Matrix: Water
Analysis Batch: 402129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00266		mg/L		106	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-401646/2
Matrix: Water
Analysis Batch: 401646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/10/22 18:17	1

Lab Sample ID: LCS 180-401646/1
Matrix: Water
Analysis Batch: 401646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	251	260		mg/L		104	85 - 115

Lab Sample ID: MB 180-401647/2
Matrix: Water
Analysis Batch: 401647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/10/22 18:21	1

Lab Sample ID: LCS 180-401647/1
Matrix: Water
Analysis Batch: 401647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	251	262		mg/L		104	85 - 115

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-139452-8 DU
Matrix: Water
Analysis Batch: 401647

Client Sample ID: WGWC-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		232		mg/L		5	10

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

HPLC/IC

Analysis Batch: 850067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	300.0	
180-139452-2	WGWC-21	Total/NA	Water	300.0	
180-139452-2	WGWC-21	Total/NA	Water	300.0	
180-139452-3	EB-1	Total/NA	Water	300.0	
180-139452-4	WGWC-20	Total/NA	Water	300.0	
180-139452-4	WGWC-20	Total/NA	Water	300.0	
180-139452-5	WGWC-23	Total/NA	Water	300.0	
180-139452-6	WGWC-22	Total/NA	Water	300.0	
180-139452-7	WGWC-24	Total/NA	Water	300.0	
180-139452-8	WGWC-25	Total/NA	Water	300.0	
180-139452-9	FB-1	Total/NA	Water	300.0	
MB 460-850067/3	Method Blank	Total/NA	Water	300.0	
LCS 460-850067/5	Lab Control Sample	Total/NA	Water	300.0	
LCS D 460-850067/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 401830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	7470A	
180-139452-2	WGWC-21	Total/NA	Water	7470A	
180-139452-3	EB-1	Total/NA	Water	7470A	
180-139452-4	WGWC-20	Total/NA	Water	7470A	
180-139452-5	WGWC-23	Total/NA	Water	7470A	
180-139452-6	WGWC-22	Total/NA	Water	7470A	
180-139452-7	WGWC-24	Total/NA	Water	7470A	
180-139452-8	WGWC-25	Total/NA	Water	7470A	
180-139452-9	FB-1	Total/NA	Water	7470A	
MB 180-401830/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-401830/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 401922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total Recoverable	Water	3005A	
180-139452-2	WGWC-21	Total Recoverable	Water	3005A	
180-139452-3	EB-1	Total Recoverable	Water	3005A	
180-139452-4	WGWC-20	Total Recoverable	Water	3005A	
180-139452-5	WGWC-23	Total Recoverable	Water	3005A	
180-139452-6	WGWC-22	Total Recoverable	Water	3005A	
180-139452-7	WGWC-24	Total Recoverable	Water	3005A	
180-139452-8	WGWC-25	Total Recoverable	Water	3005A	
180-139452-9	FB-1	Total Recoverable	Water	3005A	
MB 180-401922/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-401922/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-139452-5 MS	WGWC-23	Total Recoverable	Water	3005A	
180-139452-5 MSD	WGWC-23	Total Recoverable	Water	3005A	

Analysis Batch: 402129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	EPA 7470A	401830
180-139452-2	WGWC-21	Total/NA	Water	EPA 7470A	401830

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Metals (Continued)

Analysis Batch: 402129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-3	EB-1	Total/NA	Water	EPA 7470A	401830
180-139452-4	WGWC-20	Total/NA	Water	EPA 7470A	401830
180-139452-5	WGWC-23	Total/NA	Water	EPA 7470A	401830
180-139452-6	WGWC-22	Total/NA	Water	EPA 7470A	401830
180-139452-7	WGWC-24	Total/NA	Water	EPA 7470A	401830
180-139452-8	WGWC-25	Total/NA	Water	EPA 7470A	401830
180-139452-9	FB-1	Total/NA	Water	EPA 7470A	401830
MB 180-401830/1-A	Method Blank	Total/NA	Water	EPA 7470A	401830
LCS 180-401830/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	401830

Analysis Batch: 402303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total Recoverable	Water	EPA 6020B	401922
180-139452-2	WGWC-21	Total Recoverable	Water	EPA 6020B	401922
180-139452-3	EB-1	Total Recoverable	Water	EPA 6020B	401922
180-139452-4	WGWC-20	Total Recoverable	Water	EPA 6020B	401922
180-139452-5	WGWC-23	Total Recoverable	Water	EPA 6020B	401922
180-139452-6	WGWC-22	Total Recoverable	Water	EPA 6020B	401922
180-139452-7	WGWC-24	Total Recoverable	Water	EPA 6020B	401922
180-139452-8	WGWC-25	Total Recoverable	Water	EPA 6020B	401922
180-139452-9	FB-1	Total Recoverable	Water	EPA 6020B	401922
MB 180-401922/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	401922
LCS 180-401922/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	401922
180-139452-5 MS	WGWC-23	Total Recoverable	Water	EPA 6020B	401922
180-139452-5 MSD	WGWC-23	Total Recoverable	Water	EPA 6020B	401922

General Chemistry

Analysis Batch: 401646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	SM 2540C	
180-139452-2	WGWC-21	Total/NA	Water	SM 2540C	
180-139452-3	EB-1	Total/NA	Water	SM 2540C	
180-139452-4	WGWC-20	Total/NA	Water	SM 2540C	
180-139452-5	WGWC-23	Total/NA	Water	SM 2540C	
180-139452-6	WGWC-22	Total/NA	Water	SM 2540C	
180-139452-7	WGWC-24	Total/NA	Water	SM 2540C	
MB 180-401646/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-401646/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 401647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-8	WGWC-25	Total/NA	Water	SM 2540C	
180-139452-9	FB-1	Total/NA	Water	SM 2540C	
MB 180-401647/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-401647/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-139452-8 DU	WGWC-25	Total/NA	Water	SM 2540C	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-1

Field Service / Mobile Lab

Analysis Batch: 401796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-2	WGWC-21	Total/NA	Water	Field Sampling	
180-139452-4	WGWC-20	Total/NA	Water	Field Sampling	
180-139452-5	WGWC-23	Total/NA	Water	Field Sampling	
180-139452-6	WGWC-22	Total/NA	Water	Field Sampling	
180-139452-7	WGWC-24	Total/NA	Water	Field Sampling	
180-139452-8	WGWC-25	Total/NA	Water	Field Sampling	

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Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: SCS Contacts		Phone		Brown, Shali				Page	
Company: GA Power		E-Mail		Shali.brown@eurofins.com				Job #	
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Analysis Requested		Preservation Codes:		Special Instructions/Note:	
City: Atlanta		TAT Requested (days): RUSH - 5 day TAT on App III Metals, Cl, F, SO4, TDS, and App IV Metals		RUSH - 28 day TAT on Radium 226 & 228		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Major Ions to include Alkalinity, Sulfide, and Metals as listed	
State, Zip GA, 30308		PO #		App III Metals: B, Ca		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Total Number of Containers	
Phone 404-506-7116(Tel)		WO #		App IV Metals (EPA 602/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mn, Se, Tl					
Email SCS Contacts		Project #		App IV Metals (EPA 602/470): Cl, F, SO4 & TDS (EPA 300 & SM 2540C)					
Project Name CCR - Plant Wansley Ash Pond		SSOW#		Perform MS/MSD (Yes or No)					
Site		Sample Date		Field Filtered Sample (Yes or No)					
Sample Identification		Sample Time		Matrix					
		Sample Type (C=comp, G=grab)		(Water, Solid, On-waste, BT=TISSUE, A=Air)					
		Preservation Code:							
Dep-1	6/7/22	G	Water	W	W	W	W	pH=	N/A
W6wC-21	6/6/22 1605	G	Water	W	W	W	W	pH=	6.69
EB-1	6/7/22 0945	G	Water	W	W	W	W	pH=	N/A
W6wC-20	6/7/22 1005	G	Water	W	W	W	W	pH=	5.37
W6wC-22	6/7/22 1210	G	Water	W	W	W	W	pH=	5.41
W6wC-23	6/6/22 1505	G	Water	W	W	W	W	pH=	5.72
W6wC-24	6/6/22 1930	G	Water	W	W	W	W	pH=	4.52
W6wC-25	6/7/22 1110	G	Water	W	W	W	W	pH=	5.32
FB-1	6/6/22 1345	G	Water	W	W	W	W	pH=	N/A
		G	Water	W	W	W	W	pH=	
		G	Water	W	W	W	W	pH=	

180-139452 Chain of Custody

Sample Disposal (A fee may be charged) - Samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date/Time: 6/8/22 10:05 Company: AEC Company

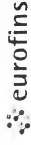
Relinquished by: _____ Date/Time: 6/8/22 16:02 Company: ETC Company

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Brown, Shali	Lab P/N: Brown, Shali	Carrier Tracking No(s):	COC No: 180-463486.1																																																																																										
Shipping/Receiving		Phone:	E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page: Page 1 of 1																																																																																										
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note):		Job #: 180-139452-1	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:																																																																																										
Address: 777 New Durham Road,		Due Date Requested: 6/15/2022	Analysis Requested																																																																																												
City: Edison	TAT Requested (days):	<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=wast/oil, BT=tissue, A=air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>300_ORGM_28D/ Chloride Fluoride Sulfate</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>Dup-1 (180-139452-1)</td> <td>6/7/22</td> <td>Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>WGC-21 (180-139452-2)</td> <td>6/6/22</td> <td>16:05 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>EB-1 (180-139452-3)</td> <td>6/7/22</td> <td>09:45 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>WGC-20 (180-139452-4)</td> <td>6/7/22</td> <td>10:05 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>WGC-22 (180-139452-5)</td> <td>6/7/22</td> <td>12:10 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>WGC-23 (180-139452-6)</td> <td>6/6/22</td> <td>15:05 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>WGC-24 (180-139452-7)</td> <td>6/6/22</td> <td>13:30 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>WGC-25 (180-139452-8)</td> <td>6/7/22</td> <td>11:10 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>FB-1 (180-139452-9)</td> <td>6/6/22</td> <td>13:45 Eastern</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> </tbody> </table>				Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	300_ORGM_28D/ Chloride Fluoride Sulfate	Total Number of Containers	Special Instructions/Note:	Dup-1 (180-139452-1)	6/7/22	Eastern	Water	Water	X	X	1		WGC-21 (180-139452-2)	6/6/22	16:05 Eastern	Water	Water	X	X	1		EB-1 (180-139452-3)	6/7/22	09:45 Eastern	Water	Water	X	X	1		WGC-20 (180-139452-4)	6/7/22	10:05 Eastern	Water	Water	X	X	1		WGC-22 (180-139452-5)	6/7/22	12:10 Eastern	Water	Water	X	X	1		WGC-23 (180-139452-6)	6/6/22	15:05 Eastern	Water	Water	X	X	1		WGC-24 (180-139452-7)	6/6/22	13:30 Eastern	Water	Water	X	X	1		WGC-25 (180-139452-8)	6/7/22	11:10 Eastern	Water	Water	X	X	1		FB-1 (180-139452-9)	6/6/22	13:45 Eastern	Water	Water	X	X	1	
Sample Identification - Client ID (Lab ID)	Sample Date					Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	300_ORGM_28D/ Chloride Fluoride Sulfate	Total Number of Containers	Special Instructions/Note:																																																																																			
Dup-1 (180-139452-1)	6/7/22					Eastern	Water	Water	X	X	1																																																																																				
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EB-1 (180-139452-3)	6/7/22					09:45 Eastern	Water	Water	X	X	1																																																																																				
WGC-20 (180-139452-4)	6/7/22					10:05 Eastern	Water	Water	X	X	1																																																																																				
WGC-22 (180-139452-5)	6/7/22					12:10 Eastern	Water	Water	X	X	1																																																																																				
WGC-23 (180-139452-6)	6/6/22					15:05 Eastern	Water	Water	X	X	1																																																																																				
WGC-24 (180-139452-7)	6/6/22					13:30 Eastern	Water	Water	X	X	1																																																																																				
WGC-25 (180-139452-8)	6/7/22					11:10 Eastern	Water	Water	X	X	1																																																																																				
FB-1 (180-139452-9)	6/6/22	13:45 Eastern	Water	Water	X	X	1																																																																																								
Project Name: Plant Wansley Ash Pond	Project #: 18019922																																																																																														
Site: Wansley CCR	SSOW#:																																																																																														

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify):
 Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Method of Shipment:
Relinquished by: [Signature]	6/14/22 17:00	Company: [Signature]
Relinquished by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:

Custody Seal No.: 18973891
 Cooler Temperature(s) °C and Other Remarks: 39°C 43°C



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-139452-1

Login Number: 139452

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-139452-1

Login Number: 139452

List Number: 3

Creator: Armbruster, Chris

List Source: Eurofins Edison

List Creation: 06/15/22 12:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1897389
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-139452-2

Client Project/Site: Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:

7/11/2022 6:08:55 PM

Shali Brown, Project Manager II
(615)301-5031

Shali.Brown@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	20
QC Association Summary	21
Chain of Custody	22
Receipt Checklists	24



Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Job ID: 180-139452-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-139452-2

Receipt

The samples were received on 6/9/2022 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8°C and 4.4°C

Gas Flow Proportional Counter

Method 9315_Ra226: Ra-226 Preparation Batch 160-570281: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Dup-1 (180-139452-1), WGWC-21 (180-139452-2), EB-1 (180-139452-3), WGWC-20 (180-139452-4), WGWC-23 (180-139452-5), WGWC-22 (180-139452-6), WGWC-24 (180-139452-7), WGWC-25 (180-139452-8), FB-1 (180-139452-9), (LCS 160-570281/2-A), (MB 160-570281/1-A), (310-233614-D-1-A), (310-233614-C-1-A MS) and (310-233614-D-1-B MSD)

Method 9320_Ra228: Radium-228 batch 570286 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Dup-1 (180-139452-1), WGWC-21 (180-139452-2), EB-1 (180-139452-3), WGWC-20 (180-139452-4), WGWC-23 (180-139452-5), WGWC-22 (180-139452-6), WGWC-24 (180-139452-7), WGWC-25 (180-139452-8), FB-1 (180-139452-9), (CCB 160-571242/56), (CCB 160-571242/57), (CCB 160-571242/58), (CCB 160-571242/59), (CCB 160-571242/60), (CCB 160-571242/61), (CCB 160-571242/62), (CCB 160-571242/65), (CCB 160-571243/79), (CCB 160-571243/80), (CCB 160-571243/81), (CCB 160-571243/82), (CCVA 160-571242/10), (CCVA 160-571242/33), (CCVA 160-571242/34), (CCVA 160-571242/35), (CCVA 160-571242/36), (CCVA 160-571242/37), (CCVA 160-571242/38), (CCVA 160-571242/39), (CCVA 160-571242/8), (CCVA 160-571243/64), (CCVA 160-571243/65), (CCVA 160-571243/66), (CCVA 160-571243/67), (CCVA 160-571243/68), (CCVB 160-571242/17), (CCVB 160-571242/18), (CCVB 160-571242/19), (CCVB 160-571242/20), (CCVB 160-571242/21), (CCVB 160-571242/22), (CCVB 160-571242/23), (CCVB 160-571242/32), (CCVB 160-571242/42), (CCVB 160-571243/72), (CCVB 160-571243/73), (CCVB 160-571243/74), (CCVB 160-571243/75), (CCVB 160-571243/76), (LCS 160-570286/2-A), (MB 160-570286/1-A), (310-233614-D-1-C), (310-233614-C-1-B MS) and (310-233614-D-1-D MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-22 *
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22 *
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22 *
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-139452-1	Dup-1	Water	06/07/22 00:00	06/09/22 15:17
180-139452-2	WGWC-21	Water	06/06/22 16:05	06/09/22 15:17
180-139452-3	EB-1	Water	06/07/22 09:45	06/09/22 15:17
180-139452-4	WGWC-20	Water	06/07/22 10:05	06/09/22 15:17
180-139452-5	WGWC-23	Water	06/06/22 15:05	06/09/22 15:17
180-139452-6	WGWC-22	Water	06/07/22 12:10	06/09/22 15:17
180-139452-7	WGWC-24	Water	06/06/22 13:30	06/09/22 15:17
180-139452-8	WGWC-25	Water	06/07/22 11:10	06/09/22 15:17
180-139452-9	FB-1	Water	06/06/22 13:45	06/09/22 15:17

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: Dup-1

Date Collected: 06/07/22 00:00

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.63 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1002.63 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:23	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Date Collected: 06/06/22 16:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1005.39 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.39 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Date Collected: 06/07/22 09:45

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.18 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			994.18 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-20

Date Collected: 06/07/22 10:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.09 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-20

Date Collected: 06/07/22 10:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			993.09 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Date Collected: 06/06/22 15:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.91 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			994.91 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-22

Date Collected: 06/07/22 12:10

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.35 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.35 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Date Collected: 06/06/22 13:30

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1006.53 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1006.53 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-24

Date Collected: 06/06/22 13:30

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL

Client Sample ID: WGWC-25

Date Collected: 06/07/22 11:10

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.24 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.24 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Date Collected: 06/06/22 13:45

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.91 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.91 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

MS = Matthew Swaringam

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

JCB = Jacob Boyd

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: Dup-1
 Date Collected: 06/07/22 00:00
 Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.266		0.0924	0.0955	1.00	0.0894	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.155	U	0.294	0.294	1.00	0.505	pCi/L	06/16/22 11:20	06/23/22 13:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					06/16/22 11:20	06/23/22 13:23	1
Y Carrier	88.2		40 - 110					06/16/22 11:20	06/23/22 13:23	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.308	0.309	2.00	0.505	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-21

Lab Sample ID: 180-139452-2

Date Collected: 06/06/22 16:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.09		0.180	0.206	1.00	0.113	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.396	0.420	1.00	0.427	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.6		40 - 110					06/16/22 11:20	06/23/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.61		0.435	0.468	2.00	0.427	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: EB-1

Lab Sample ID: 180-139452-3

Date Collected: 06/07/22 09:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00218	U	0.0549	0.0549	1.00	0.113	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0397	U	0.249	0.249	1.00	0.459	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.2		40 - 110					06/16/22 11:20	06/23/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0375	U	0.255	0.255	2.00	0.459	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-139452-4

Date Collected: 06/07/22 10:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195		0.0834	0.0852	1.00	0.0899	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.475		0.276	0.279	1.00	0.387	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.6		40 - 110					06/16/22 11:20	06/23/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.670		0.288	0.292	2.00	0.387	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-139452-5

Date Collected: 06/06/22 15:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.154		0.0948	0.0958	1.00	0.131	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29		0.450	0.465	1.00	0.555	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	89.3		40 - 110					06/16/22 11:20	06/23/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.45		0.460	0.475	2.00	0.555	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-139452-6

Date Collected: 06/07/22 12:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.58		0.199	0.244	1.00	0.0870	pCi/L	06/16/22 10:51	07/08/22 11:37	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	104		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.09		0.527	0.599	1.00	0.449	pCi/L	06/16/22 11:20	06/23/22 13:24	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	104		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	86.4		40 - 110					06/16/22 11:20	06/23/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.67		0.563	0.647	2.00	0.449	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-139452-7

Date Collected: 06/06/22 13:30

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.0868	0.0892	1.00	0.0913	pCi/L	06/16/22 10:51	07/08/22 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.616		0.299	0.304	1.00	0.405	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	87.1		40 - 110					06/16/22 11:20	06/23/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.845		0.311	0.317	2.00	0.405	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.234		0.0900	0.0924	1.00	0.0923	pCi/L	06/16/22 10:51	07/08/22 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.265	U	0.268	0.269	1.00	0.430	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.6		40 - 110					06/16/22 11:20	06/23/22 13:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.500		0.283	0.284	2.00	0.430	pCi/L		07/08/22 19:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Client Sample ID: FB-1

Lab Sample ID: 180-139452-9

Date Collected: 06/06/22 13:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0254	U	0.0492	0.0493	1.00	0.0889	pCi/L	06/16/22 10:51	07/08/22 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0207	U	0.257	0.257	1.00	0.491	pCi/L	06/16/22 11:20	06/23/22 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					06/16/22 11:20	06/23/22 13:25	1
Y Carrier	89.0		40 - 110					06/16/22 11:20	06/23/22 13:25	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00472	U	0.262	0.262	2.00	0.491	pCi/L		07/08/22 19:03	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-570281/1-A
Matrix: Water
Analysis Batch: 573267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570281

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.09386		0.0597	0.0603	1.00	0.0783	pCi/L	06/16/22 10:51	07/08/22 08:09	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	105		40 - 110			06/16/22 10:51	07/08/22 08:09	1		

Lab Sample ID: LCS 160-570281/2-A
Matrix: Water
Analysis Batch: 573267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570281

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	8.958		0.937	1.00	0.0895	pCi/L	79	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	99.3		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-570286/1-A
Matrix: Water
Analysis Batch: 571243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570286

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1536	U	0.226	0.227	1.00	0.383	pCi/L	06/16/22 11:20	06/23/22 13:16	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	105		40 - 110			06/16/22 11:20	06/23/22 13:16	1		
Y Carrier	86.0		40 - 110			06/16/22 11:20	06/23/22 13:16	1		

Lab Sample ID: LCS 160-570286/2-A
Matrix: Water
Analysis Batch: 571243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570286

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.51	8.596		1.13	1.00	0.414	pCi/L	101	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	99.3		40 - 110						
Y Carrier	87.5		40 - 110						

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond

Job ID: 180-139452-2

Rad

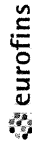
Prep Batch: 570281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	PrecSep-21	
180-139452-2	WGWC-21	Total/NA	Water	PrecSep-21	
180-139452-3	EB-1	Total/NA	Water	PrecSep-21	
180-139452-4	WGWC-20	Total/NA	Water	PrecSep-21	
180-139452-5	WGWC-23	Total/NA	Water	PrecSep-21	
180-139452-6	WGWC-22	Total/NA	Water	PrecSep-21	
180-139452-7	WGWC-24	Total/NA	Water	PrecSep-21	
180-139452-8	WGWC-25	Total/NA	Water	PrecSep-21	
180-139452-9	FB-1	Total/NA	Water	PrecSep-21	
MB 160-570281/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570281/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 570286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	PrecSep_0	
180-139452-2	WGWC-21	Total/NA	Water	PrecSep_0	
180-139452-3	EB-1	Total/NA	Water	PrecSep_0	
180-139452-4	WGWC-20	Total/NA	Water	PrecSep_0	
180-139452-5	WGWC-23	Total/NA	Water	PrecSep_0	
180-139452-6	WGWC-22	Total/NA	Water	PrecSep_0	
180-139452-7	WGWC-24	Total/NA	Water	PrecSep_0	
180-139452-8	WGWC-25	Total/NA	Water	PrecSep_0	
180-139452-9	FB-1	Total/NA	Water	PrecSep_0	
MB 160-570286/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570286/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Chain of Custody Record



Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No						
Address 241 Ralph McGill Blvd SE		Phone		Brown, Shali										
City Atlanta		E-Mail		Shali.brown@eurofins.com										
State, Zip GA, 30308		PO #		TAT Requested (days): RUSH - 5 day TAT on App III Metals, Cl, F, SO4, TDS, and App IV Metals RUSH - 28 day TAT on Radium 226 & 228										
Email 404-506-7116(Tel)		WO #		Field Filtered Sample (Yes or No)										
SCS Contacts Project Name CCR - Plant Wansley Ash Pond		SSOW#		Perform MS/MSD (Yes or No)										
Site		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=TISSUE, A=Air)						
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=TISSUE, A=Air)						
Dep-1	6/7/22			G	Water	App III Metals: B, Ca	App IV Metals (EPA 602/7470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mn, Se, Tl	Radium 226 & 228 (SW-846 9315/9320)	App III Metals: B, Ca	App IV Metals (EPA 602/7470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mn, Se, Tl	Radium 226 & 228 (SW-846 9315/9320)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
W6wC-21	6/6/22	1605		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
EB-1	6/7/22	0945		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
W6wC-20	6/7/22	1005		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
W6wC-22	6/7/22	1210		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
W6wC-23	6/6/22	1505		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
W6wC-24	6/6/22	1930		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
W6wC-25	6/7/22	1110		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
FB-1	6/6/22	1345		G	Water									Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed

180-139452 Chain of Custody

Sample Disposal (A fee may be assessed) - Samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

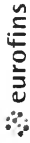
Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date/Time: 6/8/22 10:05 Company: AEC
 Relinquished by: _____ Date/Time: 6/8/22 16:02 Company: ECH
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 Custody Seals Intact: Yes No A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Special Instructions/Note:
Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-463278.1									
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@eurofins.com	State of Origin: Georgia									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-139452-2										
Address: 13715 Rider Trail North,		COC No: 180-463278.1										
City: Earth City		Page: Page 1 of 1										
State, Zip: MO, 63045		Job #: 180-139452-2										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:										
Email:		Analysis Requested										
Project #: 18019922		Field Filtered Sample (Yes or No)										
Site: Wansley CCR		Perform MS/MSD (Yes or No)										
Due Date Requested: 7/11/2022		Radium-228										
TAT Requested (days):		9315_Ra226/PreSep_21 Radium 226										
PO #:		9320_Ra228/PreSep_0 Radium 228										
WG #:		Total Number of Containers										
Project Name: Plant Wansley Ash Pond		Special Instructions/Note:										
Site: Wansley CCR												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Radium-228	Total Number of Containers	Special Instructions/Note:
Dup-1 (180-139452-1)	6/7/22	Eastern	Water	Water	X	X	X	X	X	2		
WGWC-21 (180-139452-2)	6/6/22	16:05 Eastern	Water	Water	X	X	X	X	X	2		
EB-1 (180-139452-3)	6/7/22	09:45 Eastern	Water	Water	X	X	X	X	X	2		
WGWC-20 (180-139452-4)	6/7/22	10:05 Eastern	Water	Water	X	X	X	X	X	2		
WGWC-22 (180-139452-5)	6/7/22	12:10 Eastern	Water	Water	X	X	X	X	X	2		
WGWC-23 (180-139452-6)	6/6/22	15:05 Eastern	Water	Water	X	X	X	X	X	2		
WGWC-24 (180-139452-7)	6/6/22	13:30 Eastern	Water	Water	X	X	X	X	X	2		
WGWC-25 (180-139452-8)	6/7/22	11:10 Eastern	Water	Water	X	X	X	X	X	2		
FB-1 (180-139452-9)	6/6/22	13:45 Eastern	Water	Water	X	X	X	X	X	2		

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Months
 Empty Kit Relinquished by: _____
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 6-10-22 17:00
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Received by: **FED EX**
 Received by: **Suma Worthington JUN 13 2022 09:00**
 Received by: _____
 Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-139452-2

Login Number: 139452

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-139452-2

Login Number: 139452

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/13/22 01:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-219983-1

Client Project/Site: Plant Wansley Ash Pond - Risk Evaluation
Revision: 1

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert (Trey) Singleton



Authorized for release by:
10/14/2022 12:53:08 PM

David Fuller, Project Manager
(770)344-8986

David.Fuller@et.eurofinsus.com

LINKS

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results through



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-219983-1	WCR (+0.1)	Water	08/18/22 12:40	08/20/22 08:00
680-219983-2	WCR (+1.9)	Water	08/18/22 12:07	08/20/22 08:00
680-219983-3	WCR (-0.6)	Water	08/18/22 13:24	08/20/22 08:00

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Job ID: 680-219983-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-219983-1**

Revision 1

The report being provided is a revision of the original report sent on 10/03/2022. The report (revision 1) is being revised in order to correct the reporting limits for Total & Dissolved Beryllium and to add missing batch QC.

Receipt

The samples were received on 8/20/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-413539 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: WCR (+0.1) (680-219983-1), WCR (+1.9) (680-219983-2), WCR (-0.6) (680-219983-3), (CCV 180-413539/123), (LCS 180-413026/2-B), (LCS 180-413042/2-A), (MB 180-413042/1-A), (PB 180-413026/1-B), (680-219983-A-3-D MS), (680-219983-A-3-E MSD), (680-219983-A-3-C PDS) and (680-219983-A-3-C SD ^5). The MS/MSD were also reported. The CCV recovered at 111% and the upper limit is 110%.

Method Filtration: The following samples were filtered and preserved in the laboratory: WCR (+0.1) (680-219983-1), WCR (+1.9) (680-219983-2) and WCR (-0.6) (680-219983-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Client Sample ID: WCR (+0.1)

Date Collected: 08/18/22 12:40

Date Received: 08/20/22 08:00

Lab Sample ID: 680-219983-1

Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		09/08/22 15:09	09/22/22 23:08	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/08/22 15:09	09/22/22 23:08	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025	^+	0.0025	0.00027	mg/L		09/23/22 12:22	09/28/22 16:35	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/23/22 12:22	09/28/22 16:35	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.51				SU			08/18/22 12:40	1

Client Sample ID: WCR (+1.9)

Date Collected: 08/18/22 12:07

Date Received: 08/20/22 08:00

Lab Sample ID: 680-219983-2

Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		09/08/22 15:09	09/22/22 23:11	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/08/22 15:09	09/22/22 23:11	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025	^+	0.0025	0.00027	mg/L		09/23/22 12:22	09/28/22 16:38	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/23/22 12:22	09/28/22 16:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.21				SU			08/18/22 12:07	1

Client Sample ID: WCR (-0.6)

Date Collected: 08/18/22 13:24

Date Received: 08/20/22 08:00

Lab Sample ID: 680-219983-3

Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		09/08/22 15:09	09/22/22 23:14	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/08/22 15:09	09/22/22 23:14	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025	^+	0.0025	0.00027	mg/L		09/23/22 12:22	09/28/22 16:41	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/23/22 12:22	09/28/22 16:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.56				SU			08/18/22 13:24	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-411448/1-A
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		09/08/22 15:09	09/22/22 21:51	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/08/22 15:09	09/22/22 21:51	1

Lab Sample ID: LCS 180-411448/2-A
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.497		mg/L		99	80 - 120
Lithium	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: 680-219964-E-1-B MS
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0025		0.500	0.499		mg/L		100	75 - 125
Lithium	<0.0050		0.500	0.511		mg/L		102	75 - 125

Lab Sample ID: 680-219964-E-1-C MSD
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Beryllium	<0.0025		0.500	0.511		mg/L		102	75 - 125	2	20
Lithium	<0.0050		0.500	0.521		mg/L		104	75 - 125	2	20

Lab Sample ID: MB 180-413042/1-A
Matrix: Water
Analysis Batch: 413539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 413042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025	^+	0.0025	0.00027	mg/L		09/23/22 12:22	09/28/22 16:21	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/23/22 12:22	09/28/22 16:21	1

Lab Sample ID: LCS 180-413042/2-A
Matrix: Water
Analysis Batch: 413539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 413042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.547	^+	mg/L		109	80 - 120
Lithium	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: PB 180-413026/1-B
Matrix: Water
Analysis Batch: 413539

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 413042

Analyte	PB Result	PB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025	^+	0.0025	0.00027	mg/L		09/23/22 12:22	09/28/22 16:25	1
Lithium	<0.0050		0.0050	0.00083	mg/L		09/23/22 12:22	09/28/22 16:25	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 180-413026/2-B
Matrix: Water
Analysis Batch: 413539

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 413042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.550	0.549	^+	mg/L		100	80 - 120
Lithium	0.550	0.497		mg/L		90	80 - 120

Lab Sample ID: 680-219983-3 MS
Matrix: Water
Analysis Batch: 413539

Client Sample ID: WCR (-0.6)
Prep Type: Dissolved
Prep Batch: 413042

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0025	^+	0.500	0.545	^+	mg/L		109	75 - 125
Lithium	<0.0050		0.500	0.501		mg/L		100	75 - 125

Lab Sample ID: 680-219983-3 MSD
Matrix: Water
Analysis Batch: 413539

Client Sample ID: WCR (-0.6)
Prep Type: Dissolved
Prep Batch: 413042

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0025	^+	0.500	0.536	^+	mg/L		107	75 - 125	2	20
Lithium	<0.0050		0.500	0.496		mg/L		99	75 - 125	1	20

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Metals

Prep Batch: 411448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219983-1	WCR (+0.1)	Total Recoverable	Water	3005A	
680-219983-2	WCR (+1.9)	Total Recoverable	Water	3005A	
680-219983-3	WCR (-0.6)	Total Recoverable	Water	3005A	
MB 180-411448/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-411448/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-219964-E-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-219964-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 412994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219983-1	WCR (+0.1)	Total Recoverable	Water	EPA 6020B	411448
680-219983-2	WCR (+1.9)	Total Recoverable	Water	EPA 6020B	411448
680-219983-3	WCR (-0.6)	Total Recoverable	Water	EPA 6020B	411448
MB 180-411448/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	411448
LCS 180-411448/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	411448
680-219964-E-1-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	411448
680-219964-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	411448

Filtration Batch: 413026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219983-1	WCR (+0.1)	Dissolved	Water	Filtration	
680-219983-2	WCR (+1.9)	Dissolved	Water	Filtration	
680-219983-3	WCR (-0.6)	Dissolved	Water	Filtration	
PB 180-413026/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 180-413026/2-B	Lab Control Sample	Dissolved	Water	Filtration	
680-219983-3 MS	WCR (-0.6)	Dissolved	Water	Filtration	
680-219983-3 MSD	WCR (-0.6)	Dissolved	Water	Filtration	

Prep Batch: 413042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219983-1	WCR (+0.1)	Dissolved	Water	3005A	413026
680-219983-2	WCR (+1.9)	Dissolved	Water	3005A	413026
680-219983-3	WCR (-0.6)	Dissolved	Water	3005A	413026
MB 180-413042/1-A	Method Blank	Total Recoverable	Water	3005A	
PB 180-413026/1-B	Method Blank	Dissolved	Water	3005A	413026
LCS 180-413026/2-B	Lab Control Sample	Dissolved	Water	3005A	413026
LCS 180-413042/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-219983-3 MS	WCR (-0.6)	Dissolved	Water	3005A	413026
680-219983-3 MSD	WCR (-0.6)	Dissolved	Water	3005A	413026

Analysis Batch: 413539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219983-1	WCR (+0.1)	Dissolved	Water	EPA 6020B	413042
680-219983-2	WCR (+1.9)	Dissolved	Water	EPA 6020B	413042
680-219983-3	WCR (-0.6)	Dissolved	Water	EPA 6020B	413042
MB 180-413042/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	413042
PB 180-413026/1-B	Method Blank	Dissolved	Water	EPA 6020B	413042
LCS 180-413026/2-B	Lab Control Sample	Dissolved	Water	EPA 6020B	413042
LCS 180-413042/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	413042
680-219983-3 MS	WCR (-0.6)	Dissolved	Water	EPA 6020B	413042
680-219983-3 MSD	WCR (-0.6)	Dissolved	Water	EPA 6020B	413042

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Field Service / Mobile Lab

Analysis Batch: 737445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219983-1	WCR (+0.1)	Total/NA	Water	Field Sampling	
680-219983-2	WCR (+1.9)	Total/NA	Water	Field Sampling	
680-219983-3	WCR (-0.6)	Total/NA	Water	Field Sampling	

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Client Sample ID: WCR (+0.1)

Date Collected: 08/18/22 12:40

Date Received: 08/20/22 08:00

Lab Sample ID: 680-219983-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	250 mL	413026	09/23/22 10:46	NAF	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	413042	09/23/22 12:22	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			413539	09/28/22 16:35	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	411448	09/08/22 15:09	NAF	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 23:08	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	Field Sampling		1			737445	08/18/22 12:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WCR (+1.9)

Date Collected: 08/18/22 12:07

Date Received: 08/20/22 08:00

Lab Sample ID: 680-219983-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	250 mL	413026	09/23/22 10:46	NAF	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	413042	09/23/22 12:22	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			413539	09/28/22 16:38	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	411448	09/08/22 15:09	NAF	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 23:11	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	Field Sampling		1			737445	08/18/22 12:07	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WCR (-0.6)

Date Collected: 08/18/22 13:24

Date Received: 08/20/22 08:00

Lab Sample ID: 680-219983-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	250 mL	413026	09/23/22 10:46	NAF	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	413042	09/23/22 12:22	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			413539	09/28/22 16:41	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	411448	09/08/22 15:09	NAF	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 23:14	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	Field Sampling		1			737445	08/18/22 13:24	T1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
ANAB	Dept. of Defense ELAP	L2463	09-18-22
Arkansas DEQ	State	19-015-0	02-01-23
California	State	2939	06-30-22 *
Connecticut	State	PH-0161	03-31-23
Florida	NELAP	E87052	09-14-22
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-23
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-22
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	07-01-23
Kentucky (UST)	State	NA	06-30-23
Louisiana	NELAP	30690	06-30-23
Louisiana (All)	NELAP	<cert No.>	06-30-23
Louisiana (DW)	State	LA009	12-31-22
Maine	State	GA00006	09-25-22
Maryland	State	250	12-31-22
Massachusetts	State	M-GA006	07-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
New York	NELAP	10842	04-01-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	09-08-22
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-23
South Carolina	State	98001	06-30-22 *
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-22
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wisconsin	State	999819810	08-31-23
Wyoming	State	8TMS-L	06-30-23

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22 *
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Laboratory: Eurofins Pittsburgh (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	10-11-22
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Job ID: 680-219983-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
Filtration	Sample Filtration	None	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Chain of Custody Record

Client Information Client Contact: <u>GA Power</u> SCS Contacts: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>SCS Contacts / ACC Contacts</u> Project Name: <u>Plant Wansley Ash Pond - Risk Evaluation</u> Site:		Sampler: <u>Taylor George / Hunter Auld</u> Lab PM: <u>Fuller, David</u> Phone: <u>770-594-5998</u> E-Mail: <u>david.fuller@et.eurolfins.com</u>		Carrier Tracking No(s): Job #:		COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): Lab Project #: <u>68027763</u> PO #: Project #: SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - Water K - EDTA L - EDA Other:					
Sample Identification WCR(+0.1) WCR(+1.9) WCR(-0.6)		Sample Date (mm/dd/yy) 08/18/22 08/18/22 08/19/22		Sample Time (hhmm) 1240 1207 1324		Sample Type (C=comp, G=grab) G G G	
Matrix (C=ground water, W=surface water, V=volatility control) WS WS WS		Preservation Code: WS WS WS		Field Filtered Sample (Yes or No) X N N N N		Perform MS/MSD (Yes or No) X N N N N	
Dissolved Lithium, Beryllium (lab to filter) Lithium Beryllium D N N N N		Total Number of containers X 4 4 4		pH= 7.51 7.21 7.56		Special Instructions/Note: If Dissolved Metals required, lab to filter	
244-ATLANT							
680-219983 Chain of Custody							
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested I II III, IV Other (specify)							
Empty Kit Relinquished by:							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-19-22 11:20</u>		Company: <u>ACC</u>		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-19-22 11:20</u>		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.5/0.4</u>		Ver 01/16/2019	



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- 11
- 12

XN AGCA
 TRK# 1328 9416 4372
 WED - 24 AUG 10:30A
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



Uncorrected temp
 Thermometer ID
 191.8
 Initials
 OC
 NO ICE
 PT-WI-SR-001 effective 11/8/18



SHIPPING/RECEIVING
 EUROFINS ENVIRONMENT TESTING NORTH
 301 ALPHA DRIVE
 RIDC PARK
 PITTSBURGH PA 15238
 (412) 963-7058
 PO: YES
 REF: 9880-138592

SHIP DATE: 2AUG22
 ACTWGT: 25.00 LB HAN
 CAD: 0801261/CAFE3616
 BILL SENDER

TestAmerica
 THE LEADER IN
 RT 98
 FZ
 10:30
 A
 ING



155969-434 MTW EXP 01/23
 27272/F398/4372

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

6499
Post 19CC

Chain of Custody Record



680-219983 Chain of Custody

Client Information (Sub Contract Lab)

Client Contact: Lab PM: Fuller, David
Shipping/Receiving Phone: E-Mail: David.Fuller@eurofinsus.com

Company: Eurofins Environment Testing Northeast, Accreditations Required (See note):

Address: 301 Alpha Drive, RIDC Park,
City: Pittsburgh
State, Zip: PA, 15238
Phone: 412-963-7058(Tel) 412-963-2468(Fax)
Email:
Project Name: Plant Wansley Ash Pond - Risk Evaluation
Site:
Due Date Requested: 9/1/2022
TAT Requested (days):
PO #:
WO #:
Project #: 68027766
SSOW#:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, B=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B/3005A Lithium	6020B/FILTRATION Lithium (Lab Filtered)
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)		
WCR (+0.1) (680-219983-1)	8/18/22	12:40 Eastern	Water	Water	X	X	X	X		
WCR (+1.9) (680-219983-2)	8/18/22	12:07 Eastern	Water	Water	X	X	X	X		
WCR (-0.6) (680-219983-3)	8/18/22	13:24 Eastern	Water	Water	X	X	X	X		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instrument status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Envir

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are returned to client)
 Return To Client Disposal By Lab

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date: 8/19/22	Time: 1730	Method of Shipment:
Received by:	Date: 8/19/22	Time: 1730	Method of Shipment:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219983-1

Login Number: 219983

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-219893-1
Client Project/Site: Plant Wansley - Ash Pond

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert (Trey) Singleton



Authorized for release by:
9/30/2022 3:52:33 PM

David Fuller, Project Manager
(770)344-8986
David.Fuller@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-219893-1	WGWA-1	Water	08/15/22 13:25	08/18/22 13:30
680-219893-2	WGWA-2	Water	08/15/22 14:50	08/18/22 13:30
680-219893-3	FB-01	Water	08/15/22 15:10	08/18/22 13:30
680-219893-4	WGWA-7	Water	08/16/22 11:20	08/18/22 13:30
680-219893-5	WGWA-18	Water	08/16/22 14:05	08/18/22 13:30
680-219893-6	WGWA-5	Water	08/15/22 13:51	08/18/22 13:30
680-219893-7	EB-04	Water	08/15/22 14:20	08/18/22 13:30
680-219893-8	WGWA-6	Water	08/15/22 15:00	08/18/22 13:30
680-219893-9	WGWA-4	Water	08/16/22 10:20	08/18/22 13:30
680-219893-10	WGWA-3	Water	08/16/22 11:15	08/18/22 13:30
680-219893-11	WGWC-17	Water	08/16/22 12:21	08/18/22 13:30
680-219893-12	FD-01	Water	08/16/22 00:00	08/18/22 13:30
680-219893-13	WGWC-21	Water	08/16/22 14:40	08/18/22 13:30
680-219968-1	WGWC-11	Water	08/16/22 16:00	08/20/22 08:00
680-219968-2	EB-05	Water	08/16/22 15:10	08/20/22 08:00
680-219968-3	WGWC-9	Water	08/17/22 10:00	08/20/22 08:00
680-219968-4	WGWC-16	Water	08/17/22 11:40	08/20/22 08:00
680-219968-5	WGWC-15	Water	08/17/22 12:55	08/20/22 08:00
680-219968-6	WGWC-25	Water	08/17/22 14:40	08/20/22 08:00
680-219968-7	WGWC-23	Water	08/17/22 15:50	08/20/22 08:00
680-219968-8	WGWC-19	Water	08/17/22 17:00	08/20/22 08:00
680-219968-9	WGWC-12	Water	08/18/22 12:00	08/20/22 08:00
680-219968-10	FB-03	Water	08/17/22 16:35	08/20/22 08:00
680-219968-11	FD-02	Water	08/17/22 00:00	08/20/22 08:00
680-219968-12	FB-02	Water	08/16/22 15:30	08/20/22 08:00
680-219968-13	WGWC-8	Water	08/16/22 15:55	08/20/22 08:00
680-219968-14	WGWC-20	Water	08/18/22 10:15	08/20/22 08:00
680-219968-15	WGWC-13	Water	08/18/22 12:37	08/20/22 08:00
680-219968-16	WGWC-24	Water	08/18/22 13:05	08/20/22 08:00
680-219968-17	FD-03	Water	08/18/22 00:00	08/20/22 08:00
680-219968-18	EB-06	Water	08/18/22 11:25	08/20/22 08:00
680-219968-19	WGWC-10	Water	08/19/22 10:10	08/20/22 08:00
680-219968-20	WGWC-14A	Water	08/19/22 11:35	08/20/22 08:00
680-219968-21	WGWC-22	Water	08/19/22 12:21	08/20/22 08:00



Case Narrative

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Job ID: 680-219893-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-219893-1

Receipt

The samples were received on 8/18/2022 1:30 PM and 8/20/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 0.2°C, 0.4°C, 1.4°C, 2.2°C, 2.6°C, 3.0°C, 3.1°C and 4.1°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-736898 was outside control limits: (680-219890-A-13 DU) and (680-219893-C-6 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-737144 was outside control limits: (680-219938-A-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-737513 was outside control limits: (680-219968-C-16 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-1

Lab Sample ID: 680-219893-1

Date Collected: 08/15/22 13:25

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.20	mg/L			08/26/22 20:12	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 20:12	1
Sulfate	<0.40		1.0	0.40	mg/L			08/26/22 20:12	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.045		0.010	0.00089	mg/L		08/30/22 05:15	09/01/22 00:25	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/22 05:15	09/01/22 00:25	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/30/22 05:15	09/01/22 00:25	1
Calcium	1.2		0.50	0.14	mg/L		08/30/22 05:15	09/01/22 00:25	1
Cobalt	0.00070	J	0.0025	0.00022	mg/L		08/30/22 05:15	09/01/22 00:25	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/30/22 05:15	09/01/22 00:25	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/30/22 05:15	09/01/22 00:25	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/30/22 05:15	09/01/22 00:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 17:42	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 14:15	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 14:15	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 14:15	1
Chromium	0.0063		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 14:15	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 14:15	1
Lithium	0.0032	J	0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	45		10	10	mg/L			08/22/22 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.28				SU			08/15/22 13:25	1

Client Sample ID: WGWA-2

Lab Sample ID: 680-219893-2

Date Collected: 08/15/22 14:50

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.20	mg/L			08/26/22 21:15	1
Fluoride	0.057	J	0.10	0.040	mg/L			08/26/22 21:15	1
Sulfate	0.54	J	1.0	0.40	mg/L			08/26/22 21:15	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.022		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:09	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:09	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:09	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-2

Lab Sample ID: 680-219893-2

Date Collected: 08/15/22 14:50

Matrix: Water

Date Received: 08/18/22 13:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	12		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:09	1
Cobalt	0.00045	J	0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:09	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:09	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:09	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 17:45	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 14:43	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 14:43	1
Boron	0.066	J	0.080	0.060	mg/L		09/01/22 08:50	09/10/22 14:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 14:43	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 14:43	1
Lithium	0.0070		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			08/22/22 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.04				SU			08/15/22 14:50	1

Client Sample ID: FB-01

Lab Sample ID: 680-219893-3

Date Collected: 08/15/22 15:10

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/26/22 21:53	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 21:53	1
Sulfate	<0.40		1.0	0.40	mg/L			08/26/22 21:53	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:21	1
Calcium	<0.14		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:21	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 17:49	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FB-01
Date Collected: 08/15/22 15:10
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-3
Matrix: Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 14:47	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 14:47	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 14:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 14:47	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 14:47	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/22/22 10:53	1

Client Sample ID: WGWA-7
Date Collected: 08/16/22 11:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-4
Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.20	mg/L			08/26/22 22:06	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 22:06	1
Sulfate	<0.40		1.0	0.40	mg/L			08/26/22 22:06	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.011		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:24	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:24	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:24	1
Calcium	0.94		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:24	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:24	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:24	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:24	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 17:52	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 14:50	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 14:50	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 14:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 14:50	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 14:50	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		10	10	mg/L			08/22/22 10:53	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-7

Lab Sample ID: 680-219893-4

Date Collected: 08/16/22 11:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.32				SU			08/16/22 11:20	1

Client Sample ID: WGWA-18

Lab Sample ID: 680-219893-5

Date Collected: 08/16/22 14:05

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.20	mg/L			08/26/22 22:18	1
Fluoride	0.060	J	0.10	0.040	mg/L			08/26/22 22:18	1
Sulfate	7.2		1.0	0.40	mg/L			08/26/22 22:18	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.012		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:28	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:28	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:28	1
Calcium	8.8		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:28	1
Cobalt	0.00075	J	0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:28	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:28	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:28	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 17:56	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 14:54	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 14:54	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 14:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 14:54	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 14:54	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		10	10	mg/L			08/22/22 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.19				SU			08/16/22 14:05	1

Client Sample ID: WGWA-5

Lab Sample ID: 680-219893-6

Date Collected: 08/15/22 13:51

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.20	mg/L			08/26/22 22:31	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 22:31	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-5

Lab Sample ID: 680-219893-6

Date Collected: 08/15/22 13:51

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.6		1.0	0.40	mg/L			08/26/22 22:31	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.029		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:32	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:32	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:32	1
Calcium	51		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:32	1
Cobalt	0.00063	J	0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:32	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:32	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:32	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 17:59	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 14:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 14:57	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 14:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 14:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 14:57	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		40	40	mg/L			08/22/22 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.54				SU			08/15/22 13:50	1

Client Sample ID: EB-04

Lab Sample ID: 680-219893-7

Date Collected: 08/15/22 14:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/26/22 22:44	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 22:44	1
Sulfate	<0.40		1.0	0.40	mg/L			08/26/22 22:44	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:36	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:36	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:36	1
Calcium	<0.14		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:36	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:36	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: EB-04
Date Collected: 08/15/22 14:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-7
Matrix: Water

Method: 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:36	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:36	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 18:03	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 15:00	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 15:00	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 15:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 15:00	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 15:00	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/22/22 10:54	1

Client Sample ID: WGWA-6
Date Collected: 08/15/22 15:00
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-8
Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.20	mg/L			08/26/22 22:56	1
Fluoride	0.093	J	0.10	0.040	mg/L			08/26/22 22:56	1
Sulfate	7.5		1.0	0.40	mg/L			08/26/22 22:56	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0069	J	0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:47	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:47	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:47	1
Calcium	24		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:47	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:47	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:47	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:47	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 18:06	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 15:04	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 15:04	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 15:04	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-6

Lab Sample ID: 680-219893-8

Date Collected: 08/15/22 15:00

Matrix: Water

Date Received: 08/18/22 13:30

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 15:04	1
Lead	0.00019	J	0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 15:04	1
Lithium	0.0047	J	0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			08/22/22 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.76				SU			08/15/22 15:00	1

Client Sample ID: WGWA-4

Lab Sample ID: 680-219893-9

Date Collected: 08/16/22 10:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.20	mg/L			08/26/22 23:09	1
Fluoride	0.12		0.10	0.040	mg/L			08/26/22 23:09	1
Sulfate	6.9		1.0	0.40	mg/L			08/26/22 23:09	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0062	J	0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:51	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:51	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:51	1
Calcium	16		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:51	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:51	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:51	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:51	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 18:09	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00051	J B	0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 15:18	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 15:18	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 15:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 15:18	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 15:18	1
Lithium	0.0043	J	0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			08/22/22 10:53	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-4

Lab Sample ID: 680-219893-9

Date Collected: 08/16/22 10:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.92				SU			08/16/22 10:20	1

Client Sample ID: WGWA-3

Lab Sample ID: 680-219893-10

Date Collected: 08/16/22 11:15

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.20	mg/L			08/26/22 23:22	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 23:22	1
Sulfate	0.52	J	1.0	0.40	mg/L			08/26/22 23:22	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.014		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:55	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:55	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:55	1
Calcium	1.8		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:55	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:55	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:55	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:55	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 18:20	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 15:21	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 15:21	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 15:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 15:21	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 15:21	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		10	10	mg/L			08/22/22 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.46				SU			08/16/22 11:15	1

Client Sample ID: WGWC-17

Lab Sample ID: 680-219893-11

Date Collected: 08/16/22 12:21

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.20	mg/L			08/26/22 23:34	1
Fluoride	0.060	J	0.10	0.040	mg/L			08/26/22 23:34	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-17

Lab Sample ID: 680-219893-11

Date Collected: 08/16/22 12:21

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3.4		1.0	0.40	mg/L			08/26/22 23:34	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.011		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:59	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:59	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:59	1
Calcium	5.6		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:59	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:59	1
Molybdenum	0.0024	J	0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:59	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:59	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 18:23	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 15:25	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 15:25	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 15:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 15:25	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 15:25	1
Lithium	0.0053		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	81		10	10	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.02				SU			08/16/22 12:21	1

Client Sample ID: FD-01

Lab Sample ID: 680-219893-12

Date Collected: 08/16/22 00:00

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.20	mg/L			08/27/22 00:12	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 00:12	1
Sulfate	0.51	J	1.0	0.40	mg/L			08/27/22 00:12	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.012		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 22:03	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 22:03	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 22:03	1
Calcium	1.6		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 22:03	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 22:03	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FD-01

Lab Sample ID: 680-219893-12

Date Collected: 08/16/22 00:00

Matrix: Water

Date Received: 08/18/22 13:30

Method: 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 22:03	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 22:03	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 22:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 18:26	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 15:28	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 15:28	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 15:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 15:28	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 15:28	1
Lithium	0.00092	J	0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		10	10	mg/L			08/23/22 13:36	1

Client Sample ID: WGWC-21

Lab Sample ID: 680-219893-13

Date Collected: 08/16/22 14:40

Matrix: Water

Date Received: 08/18/22 13:30

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		1.0	0.20	mg/L			08/27/22 00:50	1
Fluoride	1.8		0.10	0.040	mg/L			08/27/22 00:50	1
Sulfate	240		1.0	0.40	mg/L			08/27/22 00:50	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0039	J	0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 22:07	1
Beryllium	0.00022	J	0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 22:07	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 22:07	1
Calcium	55		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 22:07	1
Cobalt	0.00039	J	0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 22:07	1
Molybdenum	0.042		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 22:07	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 22:07	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 22:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 18:30	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00055	J B	0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 15:32	1
Arsenic	0.00028	J	0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 15:32	1
Boron	0.099		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 15:32	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-21

Lab Sample ID: 680-219893-13

Date Collected: 08/16/22 14:40

Matrix: Water

Date Received: 08/18/22 13:30

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 15:32	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 15:32	1
Lithium	0.059		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		40	40	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.72				SU			08/16/22 14:40	1

Client Sample ID: WGWC-11

Lab Sample ID: 680-219968-1

Date Collected: 08/16/22 16:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.20	mg/L			08/27/22 01:16	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 01:16	1
Sulfate	0.98	J	1.0	0.40	mg/L			08/27/22 01:16	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.038		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:16	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:16	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:16	1
Calcium	1.6		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:16	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:16	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:16	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:16	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:21	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00053	J	0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:39	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:39	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:39	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:39	1
Lithium	0.00092	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		10	10	mg/L			08/23/22 13:36	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-11

Lab Sample ID: 680-219968-1

Date Collected: 08/16/22 16:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.56				SU			08/16/22 16:00	1

Client Sample ID: EB-05

Lab Sample ID: 680-219968-2

Date Collected: 08/16/22 15:10

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/22 01:28	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 01:28	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/22 01:28	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 15:58	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 15:58	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 15:58	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 15:58	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 15:58	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 15:58	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 15:58	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 15:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:28	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:43	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:43	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:43	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:43	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/22 13:36	1

Client Sample ID: WGWC-9

Lab Sample ID: 680-219968-3

Date Collected: 08/17/22 10:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.20	mg/L			08/27/22 01:41	1
Fluoride	0.90		0.10	0.040	mg/L			08/27/22 01:41	1
Sulfate	50		1.0	0.40	mg/L			08/27/22 01:41	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-9

Lab Sample ID: 680-219968-3

Date Collected: 08/17/22 10:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:11	1
Beryllium	0.00033	J	0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:11	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:11	1
Calcium	9.0		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:11	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:11	1
Molybdenum	0.0027	J	0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:11	1
Selenium	0.0022	J	0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:11	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:31	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0043		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:46	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:46	1
Boron	0.55		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:46	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:46	1
Lithium	0.028		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.80				SU			08/17/22 10:00	1

Client Sample ID: WGWC-16

Lab Sample ID: 680-219968-4

Date Collected: 08/17/22 11:40

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35		1.0	0.20	mg/L			08/27/22 01:54	1
Fluoride	0.062	J	0.10	0.040	mg/L			08/27/22 01:54	1
Sulfate	49		1.0	0.40	mg/L			08/27/22 01:54	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.032		0.010	0.00089	mg/L		08/22/22 14:04	08/24/22 17:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:04	08/24/22 17:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:04	08/24/22 17:21	1
Calcium	20		0.50	0.14	mg/L		08/22/22 14:04	08/24/22 17:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:04	08/24/22 17:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:04	08/24/22 17:21	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:04	08/24/22 17:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:04	08/24/22 17:21	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-16

Lab Sample ID: 680-219968-4

Date Collected: 08/17/22 11:40

Matrix: Water

Date Received: 08/20/22 08:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:34	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:49	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:49	1
Boron	0.73		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:49	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:49	1
Lithium	0.0042	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		40	40	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.24				SU			08/17/22 11:40	1

Client Sample ID: WGWC-15

Lab Sample ID: 680-219968-5

Date Collected: 08/17/22 12:55

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.20	mg/L			08/27/22 02:06	1
Fluoride	0.68		0.10	0.040	mg/L			08/27/22 02:06	1
Sulfate	14		1.0	0.40	mg/L			08/27/22 02:06	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.027		0.010	0.00089	mg/L		08/22/22 14:04	08/24/22 17:34	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:04	08/24/22 17:34	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:04	08/24/22 17:34	1
Calcium	29		0.50	0.14	mg/L		08/22/22 14:04	08/24/22 17:34	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:04	08/24/22 17:34	1
Molybdenum	0.0025	J	0.015	0.00086	mg/L		08/22/22 14:04	08/24/22 17:34	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:04	08/24/22 17:34	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:04	08/24/22 17:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:41	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:53	1
Arsenic	0.00052	J	0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:53	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:53	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:53	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-15

Lab Sample ID: 680-219968-5

Date Collected: 08/17/22 12:55

Matrix: Water

Date Received: 08/20/22 08:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0073		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		40	40	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.54				SU			08/17/22 12:55	1

Client Sample ID: WGWC-25

Lab Sample ID: 680-219968-6

Date Collected: 08/17/22 14:40

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77		1.0	0.20	mg/L			08/27/22 02:19	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 02:19	1
Sulfate	25		1.0	0.40	mg/L			08/27/22 02:19	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31		0.010	0.00089	mg/L		08/22/22 14:04	08/24/22 17:28	1
Beryllium	0.00022	J	0.0025	0.00020	mg/L		08/22/22 14:04	08/24/22 17:28	1
Cadmium	0.00012	J	0.0025	0.000078	mg/L		08/22/22 14:04	08/24/22 17:28	1
Calcium	15		0.50	0.14	mg/L		08/22/22 14:04	08/24/22 17:28	1
Cobalt	0.0037		0.0025	0.00022	mg/L		08/22/22 14:04	08/24/22 17:28	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:04	08/24/22 17:28	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:04	08/24/22 17:28	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:04	08/24/22 17:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:44	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:56	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:56	1
Boron	0.82		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:56	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:56	1
Lithium	0.0036	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		40	40	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.28				SU			08/17/22 14:40	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-23

Lab Sample ID: 680-219968-7

Date Collected: 08/17/22 15:50

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.20	mg/L			08/27/22 02:31	1
Fluoride	0.043	J	0.10	0.040	mg/L			08/27/22 02:31	1
Sulfate	5.5		1.0	0.40	mg/L			08/27/22 02:31	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0089	J	0.010	0.00089	mg/L		08/23/22 05:46	08/24/22 15:12	1
Beryllium	0.00078	J	0.0025	0.00020	mg/L		08/23/22 05:46	08/24/22 15:12	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/23/22 05:46	08/24/22 15:12	1
Calcium	4.6		0.50	0.14	mg/L		08/23/22 05:46	08/24/22 15:12	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/23/22 05:46	08/24/22 15:12	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/23/22 05:46	08/24/22 15:12	1
Selenium	0.0013	J	0.0050	0.0012	mg/L		08/23/22 05:46	08/24/22 15:12	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/23/22 05:46	08/24/22 15:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/26/22 09:07	08/26/22 18:11	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:59	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:59	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:59	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:59	1
Lithium	0.0017	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	85		10	10	mg/L			08/22/22 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.64				SU			08/17/22 15:50	1

Client Sample ID: WGWC-19

Lab Sample ID: 680-219968-8

Date Collected: 08/17/22 17:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.20	mg/L			08/27/22 18:21	1
Fluoride	0.28		0.10	0.040	mg/L			08/27/22 18:21	1
Sulfate	2.8		1.0	0.40	mg/L			08/27/22 18:21	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0012	J	0.010	0.00089	mg/L		08/22/22 14:04	08/24/22 17:31	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:04	08/24/22 17:31	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:04	08/24/22 17:31	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-19

Lab Sample ID: 680-219968-8

Date Collected: 08/17/22 17:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	9.8		0.50	0.14	mg/L		08/22/22 14:04	08/24/22 17:31	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:04	08/24/22 17:31	1
Molybdenum	0.0010	J	0.015	0.00086	mg/L		08/22/22 14:04	08/24/22 17:31	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:04	08/24/22 17:31	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:04	08/24/22 17:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:46	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00058	J	0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 17:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 17:23	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 17:23	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 17:23	1
Lithium	0.056		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		10	10	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.60				SU			08/17/22 17:00	1

Client Sample ID: WGWC-12

Lab Sample ID: 680-219968-9

Date Collected: 08/18/22 12:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.20	mg/L			08/27/22 18:34	1
Fluoride	0.073	J	0.10	0.040	mg/L			08/27/22 18:34	1
Sulfate	11		1.0	0.40	mg/L			08/27/22 18:34	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.014		0.010	0.00089	mg/L		08/22/22 14:04	08/24/22 17:26	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:04	08/24/22 17:26	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:04	08/24/22 17:26	1
Calcium	13		0.50	0.14	mg/L		08/22/22 14:04	08/24/22 17:26	1
Cobalt	0.00034	J	0.0025	0.00022	mg/L		08/22/22 14:04	08/24/22 17:26	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:04	08/24/22 17:26	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:04	08/24/22 17:26	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:04	08/24/22 17:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:49	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-12

Lab Sample ID: 680-219968-9

Date Collected: 08/18/22 12:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 17:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 17:26	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 17:26	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 17:26	1
Lithium	0.0063		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			08/23/22 12:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.52				SU			08/18/22 12:00	1

Client Sample ID: FB-03

Lab Sample ID: 680-219968-10

Date Collected: 08/17/22 16:35

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/22 18:46	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 18:46	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/22 18:46	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:27	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:27	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:27	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:27	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:27	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:27	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:27	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:51	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 17:29	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 17:29	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 17:29	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 17:29	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 17:29	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FB-03
Date Collected: 08/17/22 16:35
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/22 13:36	1

Client Sample ID: FD-02
Date Collected: 08/17/22 00:00
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-11
Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35		1.0	0.20	mg/L			08/27/22 18:59	1
Fluoride	0.063	J	0.10	0.040	mg/L			08/27/22 18:59	1
Sulfate	49		1.0	0.40	mg/L			08/27/22 18:59	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.034		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:14	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:14	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:14	1
Calcium	20		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:14	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:14	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:14	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:14	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:54	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 17:33	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 17:33	1
Boron	0.73		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 17:33	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 17:33	1
Lithium	0.0043	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		40	40	mg/L			08/23/22 13:36	1

Client Sample ID: FB-02
Date Collected: 08/16/22 15:30
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-12
Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/22 19:12	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 19:12	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/22 19:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FB-02
Date Collected: 08/16/22 15:30
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-12
Matrix: Water

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 15:56	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 15:56	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 15:56	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 15:56	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 15:56	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 15:56	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 15:56	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 15:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:56	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 17:36	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 17:36	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 17:36	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 17:36	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/22 13:36	1

Client Sample ID: WGWC-8
Date Collected: 08/16/22 15:55
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-13
Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		1.0	0.20	mg/L			08/27/22 19:24	1
Fluoride	0.21		0.10	0.040	mg/L			08/27/22 19:24	1
Sulfate	220		1.0	0.40	mg/L			08/27/22 19:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0014	J	0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:19	1
Beryllium	0.0018	J	0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:19	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:19	1
Calcium	83		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:19	1
Cobalt	0.00075	J	0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:19	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:19	1
Selenium	0.0075		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:19	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:59	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-8

Lab Sample ID: 680-219968-13

Date Collected: 08/16/22 15:55

Matrix: Water

Date Received: 08/20/22 08:00

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.011		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 17:39	1
Arsenic	0.00097	J	0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 17:39	1
Boron	2.3		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 17:39	1
Lead	0.00041	J	0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 17:39	1
Lithium	0.014		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		40	40	mg/L			08/23/22 13:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.40				SU			08/16/22 15:55	1

Client Sample ID: WGWC-20

Lab Sample ID: 680-219968-14

Date Collected: 08/18/22 10:15

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		1.0	0.20	mg/L			08/27/22 19:37	1
Fluoride	2.0		0.10	0.040	mg/L			08/27/22 19:37	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	280		5.0	2.0	mg/L			08/29/22 13:06	5

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.00091	J	0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 15:53	1
Beryllium	0.0081		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 15:53	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 15:53	1
Calcium	110		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 15:53	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 15:53	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 15:53	1
Selenium	0.0027	J	0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 15:53	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 15:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:01	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 17:52	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 17:52	1
Boron	2.2		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 17:52	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 17:52	1
Lithium	0.11		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 17:52	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-20

Lab Sample ID: 680-219968-14

Date Collected: 08/18/22 10:15

Matrix: Water

Date Received: 08/20/22 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	760		40	40	mg/L			08/23/22 12:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.29				SU			08/18/22 10:15	1

Client Sample ID: WGWC-13

Lab Sample ID: 680-219968-15

Date Collected: 08/18/22 12:37

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.98	J	1.0	0.20	mg/L			08/27/22 21:05	1
Fluoride	0.14		0.10	0.040	mg/L			08/27/22 21:05	1
Sulfate	1.7		1.0	0.40	mg/L			08/27/22 21:05	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.041		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:21	1
Calcium	3.5		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:21	1
Molybdenum	0.00087	J	0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:21	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:04	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 18:06	1
Arsenic	0.00034	J	0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 18:06	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 18:06	1
Lead	0.0011		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 18:06	1
Lithium	0.0024	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	89		10	10	mg/L			08/25/22 11:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.15				SU			08/18/22 12:37	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-24

Lab Sample ID: 680-219968-16

Date Collected: 08/18/22 13:05

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27		1.0	0.20	mg/L			08/27/22 21:18	1
Fluoride	0.24		0.10	0.040	mg/L			08/27/22 21:18	1
Sulfate	49		1.0	0.40	mg/L			08/27/22 21:18	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.041		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:01	1
Beryllium	0.0044		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:01	1
Cadmium	0.00015	J	0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:01	1
Calcium	16		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:01	1
Cobalt	0.031		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:01	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:01	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:01	1
Thallium	0.00030	J	0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:12	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 18:09	1
Arsenic	0.00028	J	0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 18:09	1
Boron	0.44		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 18:09	1
Lead	0.00032	J	0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 18:09	1
Lithium	0.0036	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		40	40	mg/L			08/25/22 11:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.42				SU			08/18/22 13:05	1

Client Sample ID: FD-03

Lab Sample ID: 680-219968-17

Date Collected: 08/18/22 00:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27		1.0	0.20	mg/L			08/27/22 21:31	1
Fluoride	0.24		0.10	0.040	mg/L			08/27/22 21:31	1
Sulfate	49		1.0	0.40	mg/L			08/27/22 21:31	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.039		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:09	1
Beryllium	0.0041		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:09	1
Cadmium	0.00014	J	0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:09	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FD-03
Date Collected: 08/18/22 00:00
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-17
Matrix: Water

Method: 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	16		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:09	1
Cobalt	0.030		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:09	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:09	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:09	1
Thallium	0.00029	J	0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:14	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 18:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 18:19	1
Boron	0.45		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 18:19	1
Lead	0.00034	J	0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 18:19	1
Lithium	0.0033	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		40	40	mg/L			08/25/22 11:04	1

Client Sample ID: EB-06
Date Collected: 08/18/22 11:25
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-18
Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/22 21:43	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 21:43	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/22 21:43	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 15:43	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 15:43	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 15:43	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 15:43	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 15:43	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 15:43	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 15:43	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 15:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:17	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 18:22	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: EB-06
Date Collected: 08/18/22 11:25
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-18
Matrix: Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 18:22	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 18:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 18:22	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/25/22 11:04	1

Client Sample ID: WGWC-10
Date Collected: 08/19/22 10:10
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-19
Matrix: Water

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.20	mg/L			08/27/22 21:56	1
Fluoride	0.10		0.10	0.040	mg/L			08/27/22 21:56	1
Sulfate	1.6		1.0	0.40	mg/L			08/27/22 21:56	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.030		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 15:50	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 15:50	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 15:50	1
Calcium	7.3		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 15:50	1
Cobalt	0.0014	J	0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 15:50	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 15:50	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 15:50	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 15:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:19	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 18:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 18:26	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:48	1
Chromium	0.0024		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 18:26	1
Lead	0.00030	J	0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 18:26	1
Lithium	0.0049	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	63		10	10	mg/L			08/25/22 11:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.20				SU			08/19/22 10:10	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-14A

Lab Sample ID: 680-219968-20

Date Collected: 08/19/22 11:35

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.20	mg/L			08/27/22 22:09	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 22:09	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/22 22:09	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.026		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 16:24	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 16:24	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 16:24	1
Calcium	0.64		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 16:24	1
Cobalt	0.0020	J	0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 16:24	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 16:24	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 16:24	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 16:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:22	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 18:29	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 18:29	1
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 17:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 18:29	1
Lead	0.00036	J	0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 18:29	1
Lithium	0.0021	J	0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		10	10	mg/L			08/25/22 11:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.25				SU			08/19/22 11:35	1

Client Sample ID: WGWC-22

Lab Sample ID: 680-219968-21

Date Collected: 08/19/22 12:21

Matrix: Water

Date Received: 08/20/22 08:00

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.20	mg/L			08/27/22 22:21	1
Fluoride	0.31		0.10	0.040	mg/L			08/27/22 22:21	1
Sulfate	87		1.0	0.40	mg/L			08/27/22 22:21	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.023		0.010	0.00089	mg/L		08/22/22 14:04	08/24/22 17:23	1
Beryllium	0.00063	J	0.0025	0.00020	mg/L		08/22/22 14:04	08/24/22 17:23	1
Cadmium	0.000090	J	0.0025	0.000078	mg/L		08/22/22 14:04	08/24/22 17:23	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-22

Lab Sample ID: 680-219968-21

Date Collected: 08/19/22 12:21

Matrix: Water

Date Received: 08/20/22 08:00

Method: 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	18		0.50	0.14	mg/L		08/22/22 14:04	08/24/22 17:23	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:04	08/24/22 17:23	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:04	08/24/22 17:23	1
Selenium	0.0035	J	0.0050	0.0012	mg/L		08/22/22 14:04	08/24/22 17:23	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:04	08/24/22 17:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 13:24	1

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/08/22 15:09	09/22/22 22:24	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/08/22 15:09	09/22/22 22:24	1
Boron	0.33		0.080	0.060	mg/L		09/08/22 15:09	09/23/22 15:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/08/22 15:09	09/22/22 22:24	1
Lead	0.00037	J	0.0010	0.00017	mg/L		09/08/22 15:09	09/22/22 22:24	1
Lithium	0.010	B	0.0050	0.00083	mg/L		09/08/22 15:09	09/22/22 22:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		40	40	mg/L			08/25/22 11:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.34				SU			08/19/22 12:21	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-737667/2
Matrix: Water
Analysis Batch: 737667

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/26/22 11:11	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 11:11	1
Sulfate	<0.40		1.0	0.40	mg/L			08/26/22 11:11	1

Lab Sample ID: LCS 680-737667/3
Matrix: Water
Analysis Batch: 737667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.81		mg/L		98	90 - 110
Fluoride	2.00	1.92		mg/L		96	90 - 110
Sulfate	10.0	9.82		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-737667/4
Matrix: Water
Analysis Batch: 737667

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.81		mg/L		98	90 - 110	0	15
Fluoride	2.00	1.94		mg/L		97	90 - 110	1	15
Sulfate	10.0	9.93		mg/L		99	90 - 110	1	15

Lab Sample ID: MB 680-737668/33
Matrix: Water
Analysis Batch: 737668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/26/22 20:37	1
Fluoride	<0.040		0.10	0.040	mg/L			08/26/22 20:37	1
Sulfate	<0.40		1.0	0.40	mg/L			08/26/22 20:37	1

Lab Sample ID: LCS 680-737668/34
Matrix: Water
Analysis Batch: 737668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.93		mg/L		99	90 - 110
Fluoride	2.00	1.96		mg/L		98	90 - 110
Sulfate	10.0	9.66		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-737668/35
Matrix: Water
Analysis Batch: 737668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.92		mg/L		99	90 - 110	0	15
Fluoride	2.00	1.94		mg/L		97	90 - 110	1	15
Sulfate	10.0	9.61		mg/L		96	90 - 110	0	15

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-219893-2 MS

Matrix: Water

Analysis Batch: 737668

Client Sample ID: WGWA-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.7		10.0	13.3		mg/L		106	80 - 120
Fluoride	0.057	J	2.00	2.09		mg/L		102	80 - 120
Sulfate	0.54	J	10.0	10.5		mg/L		99	80 - 120

Lab Sample ID: 680-219893-2 MSD

Matrix: Water

Analysis Batch: 737668

Client Sample ID: WGWA-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.7		10.0	13.1		mg/L		104	80 - 120	2	15
Fluoride	0.057	J	2.00	2.07		mg/L		101	80 - 120	1	15
Sulfate	0.54	J	10.0	10.2		mg/L		97	80 - 120	2	15

Lab Sample ID: 680-219893-12 MS

Matrix: Water

Analysis Batch: 737668

Client Sample ID: FD-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.6		10.0	11.9		mg/L		103	80 - 120
Fluoride	<0.040		2.00	2.01		mg/L		101	80 - 120
Sulfate	0.51	J	10.0	10.4		mg/L		99	80 - 120

Lab Sample ID: 680-219893-12 MSD

Matrix: Water

Analysis Batch: 737668

Client Sample ID: FD-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.6		10.0	12.0		mg/L		104	80 - 120	1	15
Fluoride	<0.040		2.00	2.01		mg/L		101	80 - 120	0	15
Sulfate	0.51	J	10.0	10.5		mg/L		100	80 - 120	1	15

Lab Sample ID: MB 680-737765/2

Matrix: Water

Analysis Batch: 737765

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/22 10:50	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/22 10:50	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/22 10:50	1

Lab Sample ID: LCS 680-737765/3

Matrix: Water

Analysis Batch: 737765

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.95		mg/L		100	90 - 110
Fluoride	2.00	1.97		mg/L		98	90 - 110
Sulfate	10.0	9.97		mg/L		100	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-737765/4
Matrix: Water
Analysis Batch: 737765

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.97		mg/L		100	90 - 110	0	15
Fluoride	2.00	1.98		mg/L		99	90 - 110	1	15
Sulfate	10.0	10.0		mg/L		100	90 - 110	0	15

Lab Sample ID: MB 680-737908/2
Matrix: Water
Analysis Batch: 737908

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/29/22 12:01	1
Fluoride	<0.040		0.10	0.040	mg/L			08/29/22 12:01	1
Sulfate	<0.40		1.0	0.40	mg/L			08/29/22 12:01	1

Lab Sample ID: LCS 680-737908/3
Matrix: Water
Analysis Batch: 737908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.95		mg/L		99	90 - 110
Fluoride	2.00	2.00		mg/L		100	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-737908/4
Matrix: Water
Analysis Batch: 737908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.97		mg/L		100	90 - 110	0	15
Fluoride	2.00	1.98		mg/L		99	90 - 110	1	15
Sulfate	10.0	10.1		mg/L		101	90 - 110	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-736729/1-A
Matrix: Water
Analysis Batch: 737064

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 736729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/19/22 13:07	08/22/22 21:01	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/19/22 13:07	08/22/22 21:01	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/19/22 13:07	08/22/22 21:01	1
Calcium	<0.14		0.50	0.14	mg/L		08/19/22 13:07	08/22/22 21:01	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/19/22 13:07	08/22/22 21:01	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/19/22 13:07	08/22/22 21:01	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/19/22 13:07	08/22/22 21:01	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/19/22 13:07	08/22/22 21:01	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-736729/2-A
Matrix: Water
Analysis Batch: 737064

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 736729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0960		mg/L		96	80 - 120
Beryllium	0.0500	0.0467		mg/L		93	80 - 120
Cadmium	0.0500	0.0488		mg/L		98	80 - 120
Calcium	5.00	4.93		mg/L		99	80 - 120
Cobalt	0.0500	0.0510		mg/L		102	80 - 120
Molybdenum	0.100	0.102		mg/L		102	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.0500	0.0498		mg/L		100	80 - 120

Lab Sample ID: 680-219893-2 MS
Matrix: Water
Analysis Batch: 737064

Client Sample ID: WGWA-2
Prep Type: Total Recoverable
Prep Batch: 736729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.022		0.100	0.115		mg/L		93	75 - 125
Beryllium	<0.00020		0.0500	0.0460		mg/L		92	75 - 125
Cadmium	<0.000078		0.0500	0.0468		mg/L		94	75 - 125
Calcium	12		5.00	15.8		mg/L		84	75 - 125
Cobalt	0.00045	J	0.0500	0.0502		mg/L		99	75 - 125
Molybdenum	<0.00086		0.100	0.0990		mg/L		99	75 - 125
Selenium	<0.0012		0.100	0.101		mg/L		101	75 - 125
Thallium	<0.00026		0.0500	0.0532		mg/L		106	75 - 125

Lab Sample ID: 680-219893-2 MSD
Matrix: Water
Analysis Batch: 737064

Client Sample ID: WGWA-2
Prep Type: Total Recoverable
Prep Batch: 736729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Barium	0.022		0.100	0.112		mg/L		90	75 - 125	3	20
Beryllium	<0.00020		0.0500	0.0429		mg/L		86	75 - 125	7	20
Cadmium	<0.000078		0.0500	0.0455		mg/L		91	75 - 125	3	20
Calcium	12		5.00	15.4		mg/L		76	75 - 125	3	20
Cobalt	0.00045	J	0.0500	0.0488		mg/L		97	75 - 125	3	20
Molybdenum	<0.00086		0.100	0.0967		mg/L		97	75 - 125	2	20
Selenium	<0.0012		0.100	0.0957		mg/L		95	75 - 125	5	20
Thallium	<0.00026		0.0500	0.0508		mg/L		102	75 - 125	5	20

Lab Sample ID: MB 680-736973/1-A
Matrix: Water
Analysis Batch: 737479

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 736973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/22 14:04	08/24/22 16:47	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:04	08/24/22 16:47	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:04	08/24/22 16:47	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/22 14:04	08/24/22 16:47	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:04	08/24/22 16:47	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:04	08/24/22 16:47	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:04	08/24/22 16:47	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-736973/1-A
Matrix: Water
Analysis Batch: 737479

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 736973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:04	08/24/22 16:47	1

Lab Sample ID: LCS 680-736973/2-A
Matrix: Water
Analysis Batch: 737479

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 736973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0512		mg/L		102	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Calcium	5.00	5.24		mg/L		105	80 - 120
Cobalt	0.0500	0.0498		mg/L		100	80 - 120
Molybdenum	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.0980		mg/L		98	80 - 120
Thallium	0.0500	0.0540		mg/L		108	80 - 120

Lab Sample ID: MB 680-736978/1-A
Matrix: Water
Analysis Batch: 737479

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 736978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/22 14:27	08/24/22 15:38	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/22 14:27	08/24/22 15:38	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/22/22 14:27	08/24/22 15:38	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/22 14:27	08/24/22 15:38	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/22 14:27	08/24/22 15:38	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/22/22 14:27	08/24/22 15:38	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/22/22 14:27	08/24/22 15:38	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/22/22 14:27	08/24/22 15:38	1

Lab Sample ID: LCS 680-736978/2-A
Matrix: Water
Analysis Batch: 737479

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 736978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0961		mg/L		96	80 - 120
Beryllium	0.0500	0.0492		mg/L		98	80 - 120
Cadmium	0.0500	0.0509		mg/L		102	80 - 120
Calcium	5.00	5.14		mg/L		103	80 - 120
Cobalt	0.0500	0.0500		mg/L		100	80 - 120
Molybdenum	0.100	0.0970		mg/L		97	80 - 120
Selenium	0.100	0.0961		mg/L		96	80 - 120
Thallium	0.0500	0.0524		mg/L		105	80 - 120

Lab Sample ID: 680-219968-18 MS
Matrix: Water
Analysis Batch: 737479

Client Sample ID: EB-06
Prep Type: Total Recoverable
Prep Batch: 736978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	<0.00089		0.100	0.0958		mg/L		96	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-219968-18 MS
Matrix: Water
Analysis Batch: 737479

Client Sample ID: EB-06
Prep Type: Total Recoverable
Prep Batch: 736978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.00020		0.0500	0.0495		mg/L		99	75 - 125
Cadmium	<0.000078		0.0500	0.0505		mg/L		101	75 - 125
Calcium	<0.14		5.00	5.12		mg/L		102	75 - 125
Cobalt	<0.00022		0.0500	0.0496		mg/L		99	75 - 125
Molybdenum	<0.00086		0.100	0.0960		mg/L		96	75 - 125
Selenium	<0.0012		0.100	0.0960		mg/L		96	75 - 125
Thallium	<0.00026		0.0500	0.0520		mg/L		104	75 - 125

Lab Sample ID: 680-219968-18 MSD
Matrix: Water
Analysis Batch: 737479

Client Sample ID: EB-06
Prep Type: Total Recoverable
Prep Batch: 736978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	<0.00089		0.100	0.0950		mg/L		95	75 - 125	1	20
Beryllium	<0.00020		0.0500	0.0482		mg/L		96	75 - 125	3	20
Cadmium	<0.000078		0.0500	0.0505		mg/L		101	75 - 125	0	20
Calcium	<0.14		5.00	4.96		mg/L		99	75 - 125	3	20
Cobalt	<0.00022		0.0500	0.0496		mg/L		99	75 - 125	0	20
Molybdenum	<0.00086		0.100	0.0957		mg/L		96	75 - 125	0	20
Selenium	<0.0012		0.100	0.0953		mg/L		95	75 - 125	1	20
Thallium	<0.00026		0.0500	0.0513		mg/L		103	75 - 125	1	20

Lab Sample ID: MB 680-737023/1-A
Matrix: Water
Analysis Batch: 737479

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 737023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/23/22 05:46	08/24/22 14:59	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/23/22 05:46	08/24/22 14:59	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/23/22 05:46	08/24/22 14:59	1
Calcium	<0.14		0.50	0.14	mg/L		08/23/22 05:46	08/24/22 14:59	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/23/22 05:46	08/24/22 14:59	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/23/22 05:46	08/24/22 14:59	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/23/22 05:46	08/24/22 14:59	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/23/22 05:46	08/24/22 14:59	1

Lab Sample ID: LCS 680-737023/2-A
Matrix: Water
Analysis Batch: 737479

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 737023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.100		mg/L		100	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Calcium	5.00	5.20		mg/L		104	80 - 120
Cobalt	0.0500	0.0515		mg/L		103	80 - 120
Molybdenum	0.100	0.0991		mg/L		99	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.0500	0.0534		mg/L		107	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-737994/1-A
Matrix: Water
Analysis Batch: 738421

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 737994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/30/22 05:15	08/31/22 23:58	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/22 05:15	08/31/22 23:58	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/30/22 05:15	08/31/22 23:58	1
Calcium	<0.14		0.50	0.14	mg/L		08/30/22 05:15	08/31/22 23:58	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/22 05:15	08/31/22 23:58	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/30/22 05:15	08/31/22 23:58	1
Selenium	<0.0012		0.0050	0.0012	mg/L		08/30/22 05:15	08/31/22 23:58	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/30/22 05:15	08/31/22 23:58	1

Lab Sample ID: LCS 680-737994/2-A
Matrix: Water
Analysis Batch: 738421

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 737994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0499		mg/L		100	80 - 120
Cadmium	0.0500	0.0488		mg/L		98	80 - 120
Calcium	5.00	4.86		mg/L		97	80 - 120
Cobalt	0.0500	0.0530		mg/L		106	80 - 120
Molybdenum	0.100	0.0999		mg/L		100	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.0500	0.0521		mg/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-737002/1-A
Matrix: Water
Analysis Batch: 737374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 737002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/22/22 15:13	08/23/22 17:11	1

Lab Sample ID: LCS 680-737002/2-A
Matrix: Water
Analysis Batch: 737374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 737002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00236		mg/L		94	80 - 120

Lab Sample ID: MB 680-737421/1-A
Matrix: Water
Analysis Batch: 737545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 737421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/24/22 16:44	08/25/22 12:16	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-737421/2-A
Matrix: Water
Analysis Batch: 737545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 737421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00238		mg/L		95	80 - 120

Lab Sample ID: 680-219968-1 MS
Matrix: Water
Analysis Batch: 737545

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 737421

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000910		mg/L		91	80 - 120

Lab Sample ID: 680-219968-1 MSD
Matrix: Water
Analysis Batch: 737545

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 737421

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000948		mg/L		95	80 - 120	4	20

Lab Sample ID: MB 680-737617/1-A
Matrix: Water
Analysis Batch: 737961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 737617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/26/22 09:07	08/26/22 17:13	1

Lab Sample ID: LCS 680-737617/2-A
Matrix: Water
Analysis Batch: 737961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 737617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00245		mg/L		98	80 - 120

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-410763/1-A
Matrix: Water
Analysis Batch: 411877

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 410763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000624	J	0.0020	0.00051	mg/L		09/01/22 08:50	09/10/22 14:08	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/01/22 08:50	09/10/22 14:08	1
Boron	<0.060		0.080	0.060	mg/L		09/01/22 08:50	09/10/22 14:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/22 08:50	09/10/22 14:08	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/01/22 08:50	09/10/22 14:08	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/01/22 08:50	09/10/22 14:08	1

Lab Sample ID: LCS 180-410763/2-A
Matrix: Water
Analysis Batch: 411877

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 410763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.271		mg/L		108	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-410763/2-A
Matrix: Water
Analysis Batch: 411877

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 410763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.02		mg/L		102	80 - 120
Boron	1.25	1.24		mg/L		100	80 - 120
Chromium	0.500	0.494		mg/L		99	80 - 120
Lead	0.500	0.510		mg/L		102	80 - 120
Lithium	0.500	0.495		mg/L		99	80 - 120

Lab Sample ID: 680-219893-1 MS
Matrix: Water
Analysis Batch: 411877

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 410763

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.275		mg/L		110	75 - 125
Arsenic	<0.00028		1.00	1.01		mg/L		101	75 - 125
Boron	<0.060		1.25	1.25		mg/L		100	75 - 125
Chromium	0.0063		0.500	0.493		mg/L		97	75 - 125
Lead	<0.00017		0.500	0.508		mg/L		102	75 - 125
Lithium	0.0032	J	0.500	0.505		mg/L		100	75 - 125

Lab Sample ID: 680-219893-1 MSD
Matrix: Water
Analysis Batch: 411877

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 410763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.00051		0.250	0.284		mg/L		114	75 - 125	3	20
Arsenic	<0.00028		1.00	1.06		mg/L		106	75 - 125	4	20
Boron	<0.060		1.25	1.32		mg/L		105	75 - 125	5	20
Chromium	0.0063		0.500	0.513		mg/L		101	75 - 125	4	20
Lead	<0.00017		0.500	0.530		mg/L		106	75 - 125	4	20
Lithium	0.0032	J	0.500	0.523		mg/L		104	75 - 125	3	20

Lab Sample ID: MB 180-410974/1-A
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		09/02/22 14:30	09/22/22 16:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/02/22 14:30	09/22/22 16:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/02/22 14:30	09/22/22 16:26	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/02/22 14:30	09/22/22 16:26	1
Lithium	<0.00083		0.0050	0.00083	mg/L		09/02/22 14:30	09/22/22 16:26	1

Lab Sample ID: MB 180-410974/1-A
Matrix: Water
Analysis Batch: 413078

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/02/22 14:30	09/23/22 16:06	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-410974/2-A
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	0.250	0.245		mg/L		98	80 - 120	
Arsenic	1.00	0.984		mg/L		98	80 - 120	
Chromium	0.500	0.488		mg/L		98	80 - 120	
Lead	0.500	0.501		mg/L		100	80 - 120	
Lithium	0.500	0.504		mg/L		101	80 - 120	

Lab Sample ID: LCS 180-410974/2-A
Matrix: Water
Analysis Batch: 413078

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Boron	1.25	1.13		mg/L		90	80 - 120	

Lab Sample ID: 680-219968-7 MS
Matrix: Water
Analysis Batch: 412994

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Antimony	<0.00051		0.250	0.244		mg/L		97	75 - 125	
Arsenic	<0.00028		1.00	0.973		mg/L		97	75 - 125	
Chromium	<0.0015		0.500	0.486		mg/L		97	75 - 125	
Lead	<0.00017		0.500	0.493		mg/L		99	75 - 125	
Lithium	0.0017	J	0.500	0.477		mg/L		95	75 - 125	

Lab Sample ID: 680-219968-7 MS
Matrix: Water
Analysis Batch: 413078

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Boron	<0.060		1.25	1.16		mg/L		92	75 - 125	

Lab Sample ID: 680-219968-7 MSD
Matrix: Water
Analysis Batch: 412994

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
Antimony	<0.00051		0.250	0.247		mg/L		99	75 - 125	1	20	
Arsenic	<0.00028		1.00	0.984		mg/L		98	75 - 125	1	20	
Chromium	<0.0015		0.500	0.494		mg/L		99	75 - 125	2	20	
Lead	<0.00017		0.500	0.502		mg/L		100	75 - 125	2	20	
Lithium	0.0017	J	0.500	0.482		mg/L		96	75 - 125	1	20	

Lab Sample ID: 680-219968-7 MSD
Matrix: Water
Analysis Batch: 413078

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 410974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
Boron	<0.060		1.25	1.21		mg/L		96	75 - 125	4	20	

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-411448/1-A
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00051		0.0020	0.00051	mg/L		09/08/22 15:09	09/22/22 21:51	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		09/08/22 15:09	09/22/22 21:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/08/22 15:09	09/22/22 21:51	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/08/22 15:09	09/22/22 21:51	1
Lithium	0.00124	J	0.0050	0.00083	mg/L		09/08/22 15:09	09/22/22 21:51	1

Lab Sample ID: MB 180-411448/1-A
Matrix: Water
Analysis Batch: 413078

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.060		0.080	0.060	mg/L		09/08/22 15:09	09/23/22 14:50	1

Lab Sample ID: LCS 180-411448/2-A
Matrix: Water
Analysis Batch: 412994

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.957		mg/L		96	80 - 120
Chromium	0.500	0.500		mg/L		100	80 - 120
Lead	0.500	0.505		mg/L		101	80 - 120
Lithium	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: LCS 180-411448/2-A
Matrix: Water
Analysis Batch: 413078

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 411448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-736898/1
Matrix: Water
Analysis Batch: 736898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10	10	mg/L			08/22/22 10:53	1

Lab Sample ID: LCS 680-736898/2
Matrix: Water
Analysis Batch: 736898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCSD 680-736898/3
Matrix: Water
Analysis Batch: 736898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2420	2460		mg/L		102	80 - 120	2	25

Lab Sample ID: 680-219893-6 DU
Matrix: Water
Analysis Batch: 736898

Client Sample ID: WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	140		150	F5	mg/L		7	5

Lab Sample ID: MB 680-737144/1
Matrix: Water
Analysis Batch: 737144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/22 12:53	1

Lab Sample ID: LCS 680-737144/2
Matrix: Water
Analysis Batch: 737144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2420	2420		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-737144/3
Matrix: Water
Analysis Batch: 737144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2420	2430		mg/L		100	80 - 120	0	25

Lab Sample ID: MB 680-737162/1
Matrix: Water
Analysis Batch: 737162

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/22 13:36	1

Lab Sample ID: LCS 680-737162/2
Matrix: Water
Analysis Batch: 737162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2420	2430		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-737162/3
Matrix: Water
Analysis Batch: 737162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2420	2400		mg/L		99	80 - 120	1	25

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: 680-219893-13 DU
Matrix: Water
Analysis Batch: 737162

Client Sample ID: WGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	530		542		mg/L		3	5

Lab Sample ID: MB 680-737513/1
Matrix: Water
Analysis Batch: 737513

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/25/22 11:04	1

Lab Sample ID: LCS 680-737513/2
Matrix: Water
Analysis Batch: 737513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2420	2460		mg/L		102	80 - 120

Lab Sample ID: LCSD 680-737513/3
Matrix: Water
Analysis Batch: 737513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2420	2430		mg/L		100	80 - 120	1	25

Lab Sample ID: 680-219968-16 DU
Matrix: Water
Analysis Batch: 737513

Client Sample ID: WGWC-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	140		156	F5	mg/L		9	5

Lab Sample ID: 680-219968-17 DU
Matrix: Water
Analysis Batch: 737513

Client Sample ID: FD-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	150		148		mg/L		1	5

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

HPLC/IC

Analysis Batch: 737667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total/NA	Water	300.0-1993 R2.1	
MB 680-737667/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-737667/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-737667/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 737668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-2	WGWA-2	Total/NA	Water	300.0-1993 R2.1	
680-219893-3	FB-01	Total/NA	Water	300.0-1993 R2.1	
680-219893-4	WGWA-7	Total/NA	Water	300.0-1993 R2.1	
680-219893-5	WGWA-18	Total/NA	Water	300.0-1993 R2.1	
680-219893-6	WGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-219893-7	EB-04	Total/NA	Water	300.0-1993 R2.1	
680-219893-8	WGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-219893-9	WGWA-4	Total/NA	Water	300.0-1993 R2.1	
680-219893-10	WGWA-3	Total/NA	Water	300.0-1993 R2.1	
680-219893-11	WGWC-17	Total/NA	Water	300.0-1993 R2.1	
680-219893-12	FD-01	Total/NA	Water	300.0-1993 R2.1	
680-219893-13	WGWC-21	Total/NA	Water	300.0-1993 R2.1	
680-219968-1	WGWC-11	Total/NA	Water	300.0-1993 R2.1	
680-219968-2	EB-05	Total/NA	Water	300.0-1993 R2.1	
680-219968-3	WGWC-9	Total/NA	Water	300.0-1993 R2.1	
680-219968-4	WGWC-16	Total/NA	Water	300.0-1993 R2.1	
680-219968-5	WGWC-15	Total/NA	Water	300.0-1993 R2.1	
680-219968-6	WGWC-25	Total/NA	Water	300.0-1993 R2.1	
680-219968-7	WGWC-23	Total/NA	Water	300.0-1993 R2.1	
MB 680-737668/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-737668/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-737668/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-219893-2 MS	WGWA-2	Total/NA	Water	300.0-1993 R2.1	
680-219893-2 MSD	WGWA-2	Total/NA	Water	300.0-1993 R2.1	
680-219893-12 MS	FD-01	Total/NA	Water	300.0-1993 R2.1	
680-219893-12 MSD	FD-01	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 737765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-8	WGWC-19	Total/NA	Water	300.0-1993 R2.1	
680-219968-9	WGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-219968-10	FB-03	Total/NA	Water	300.0-1993 R2.1	
680-219968-11	FD-02	Total/NA	Water	300.0-1993 R2.1	
680-219968-12	FB-02	Total/NA	Water	300.0-1993 R2.1	
680-219968-13	WGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-219968-14	WGWC-20	Total/NA	Water	300.0-1993 R2.1	
680-219968-15	WGWC-13	Total/NA	Water	300.0-1993 R2.1	
680-219968-16	WGWC-24	Total/NA	Water	300.0-1993 R2.1	
680-219968-17	FD-03	Total/NA	Water	300.0-1993 R2.1	
680-219968-18	EB-06	Total/NA	Water	300.0-1993 R2.1	
680-219968-19	WGWC-10	Total/NA	Water	300.0-1993 R2.1	
680-219968-20	WGWC-14A	Total/NA	Water	300.0-1993 R2.1	
680-219968-21	WGWC-22	Total/NA	Water	300.0-1993 R2.1	
MB 680-737765/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

HPLC/IC (Continued)

Analysis Batch: 737765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-737765/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-737765/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 737908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-14 - DL	WGWC-20	Total/NA	Water	300.0-1993 R2.1	
MB 680-737908/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-737908/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-737908/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 410763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total Recoverable	Water	3005A	
680-219893-2	WGWA-2	Total Recoverable	Water	3005A	
680-219893-3	FB-01	Total Recoverable	Water	3005A	
680-219893-4	WGWA-7	Total Recoverable	Water	3005A	
680-219893-5	WGWA-18	Total Recoverable	Water	3005A	
680-219893-6	WGWA-5	Total Recoverable	Water	3005A	
680-219893-7	EB-04	Total Recoverable	Water	3005A	
680-219893-8	WGWA-6	Total Recoverable	Water	3005A	
680-219893-9	WGWA-4	Total Recoverable	Water	3005A	
680-219893-10	WGWA-3	Total Recoverable	Water	3005A	
680-219893-11	WGWC-17	Total Recoverable	Water	3005A	
680-219893-12	FD-01	Total Recoverable	Water	3005A	
680-219893-13	WGWC-21	Total Recoverable	Water	3005A	
MB 180-410763/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-410763/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-219893-1 MS	WGWA-1	Total Recoverable	Water	3005A	
680-219893-1 MSD	WGWA-1	Total Recoverable	Water	3005A	

Prep Batch: 410974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total Recoverable	Water	3005A	
680-219968-2	EB-05	Total Recoverable	Water	3005A	
680-219968-3	WGWC-9	Total Recoverable	Water	3005A	
680-219968-4	WGWC-16	Total Recoverable	Water	3005A	
680-219968-5	WGWC-15	Total Recoverable	Water	3005A	
680-219968-6	WGWC-25	Total Recoverable	Water	3005A	
680-219968-7	WGWC-23	Total Recoverable	Water	3005A	
680-219968-8	WGWC-19	Total Recoverable	Water	3005A	
680-219968-9	WGWC-12	Total Recoverable	Water	3005A	
680-219968-10	FB-03	Total Recoverable	Water	3005A	
680-219968-11	FD-02	Total Recoverable	Water	3005A	
680-219968-12	FB-02	Total Recoverable	Water	3005A	
680-219968-13	WGWC-8	Total Recoverable	Water	3005A	
680-219968-14	WGWC-20	Total Recoverable	Water	3005A	
680-219968-15	WGWC-13	Total Recoverable	Water	3005A	
680-219968-16	WGWC-24	Total Recoverable	Water	3005A	
680-219968-17	FD-03	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Metals (Continued)

Prep Batch: 410974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-18	EB-06	Total Recoverable	Water	3005A	
680-219968-19	WGWC-10	Total Recoverable	Water	3005A	
680-219968-20	WGWC-14A	Total Recoverable	Water	3005A	
MB 180-410974/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-410974/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-219968-7 MS	WGWC-23	Total Recoverable	Water	3005A	
680-219968-7 MSD	WGWC-23	Total Recoverable	Water	3005A	

Prep Batch: 411448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-21	WGWC-22	Total Recoverable	Water	3005A	
MB 180-411448/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-411448/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 411877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total Recoverable	Water	EPA 6020B	410763
680-219893-2	WGWA-2	Total Recoverable	Water	EPA 6020B	410763
680-219893-3	FB-01	Total Recoverable	Water	EPA 6020B	410763
680-219893-4	WGWA-7	Total Recoverable	Water	EPA 6020B	410763
680-219893-5	WGWA-18	Total Recoverable	Water	EPA 6020B	410763
680-219893-6	WGWA-5	Total Recoverable	Water	EPA 6020B	410763
680-219893-7	EB-04	Total Recoverable	Water	EPA 6020B	410763
680-219893-8	WGWA-6	Total Recoverable	Water	EPA 6020B	410763
680-219893-9	WGWA-4	Total Recoverable	Water	EPA 6020B	410763
680-219893-10	WGWA-3	Total Recoverable	Water	EPA 6020B	410763
680-219893-11	WGWC-17	Total Recoverable	Water	EPA 6020B	410763
680-219893-12	FD-01	Total Recoverable	Water	EPA 6020B	410763
680-219893-13	WGWC-21	Total Recoverable	Water	EPA 6020B	410763
MB 180-410763/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	410763
LCS 180-410763/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	410763
680-219893-1 MS	WGWA-1	Total Recoverable	Water	EPA 6020B	410763
680-219893-1 MSD	WGWA-1	Total Recoverable	Water	EPA 6020B	410763

Analysis Batch: 411893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total Recoverable	Water	EPA 6020B	410763
680-219893-2	WGWA-2	Total Recoverable	Water	EPA 6020B	410763
680-219893-3	FB-01	Total Recoverable	Water	EPA 6020B	410763
680-219893-4	WGWA-7	Total Recoverable	Water	EPA 6020B	410763
680-219893-5	WGWA-18	Total Recoverable	Water	EPA 6020B	410763
680-219893-6	WGWA-5	Total Recoverable	Water	EPA 6020B	410763
680-219893-7	EB-04	Total Recoverable	Water	EPA 6020B	410763
680-219893-8	WGWA-6	Total Recoverable	Water	EPA 6020B	410763
680-219893-9	WGWA-4	Total Recoverable	Water	EPA 6020B	410763
680-219893-10	WGWA-3	Total Recoverable	Water	EPA 6020B	410763
680-219893-11	WGWC-17	Total Recoverable	Water	EPA 6020B	410763
680-219893-12	FD-01	Total Recoverable	Water	EPA 6020B	410763
680-219893-13	WGWC-21	Total Recoverable	Water	EPA 6020B	410763
MB 180-410763/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	410763
LCS 180-410763/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	410763

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Metals (Continued)

Analysis Batch: 411893 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1 MS	WGWA-1	Total Recoverable	Water	EPA 6020B	410763
680-219893-1 MSD	WGWA-1	Total Recoverable	Water	EPA 6020B	410763

Analysis Batch: 412994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total Recoverable	Water	EPA 6020B	410974
680-219968-2	EB-05	Total Recoverable	Water	EPA 6020B	410974
680-219968-3	WGWC-9	Total Recoverable	Water	EPA 6020B	410974
680-219968-4	WGWC-16	Total Recoverable	Water	EPA 6020B	410974
680-219968-5	WGWC-15	Total Recoverable	Water	EPA 6020B	410974
680-219968-6	WGWC-25	Total Recoverable	Water	EPA 6020B	410974
680-219968-7	WGWC-23	Total Recoverable	Water	EPA 6020B	410974
680-219968-8	WGWC-19	Total Recoverable	Water	EPA 6020B	410974
680-219968-9	WGWC-12	Total Recoverable	Water	EPA 6020B	410974
680-219968-10	FB-03	Total Recoverable	Water	EPA 6020B	410974
680-219968-11	FD-02	Total Recoverable	Water	EPA 6020B	410974
680-219968-12	FB-02	Total Recoverable	Water	EPA 6020B	410974
680-219968-13	WGWC-8	Total Recoverable	Water	EPA 6020B	410974
680-219968-14	WGWC-20	Total Recoverable	Water	EPA 6020B	410974
680-219968-15	WGWC-13	Total Recoverable	Water	EPA 6020B	410974
680-219968-16	WGWC-24	Total Recoverable	Water	EPA 6020B	410974
680-219968-17	FD-03	Total Recoverable	Water	EPA 6020B	410974
680-219968-18	EB-06	Total Recoverable	Water	EPA 6020B	410974
680-219968-19	WGWC-10	Total Recoverable	Water	EPA 6020B	410974
680-219968-20	WGWC-14A	Total Recoverable	Water	EPA 6020B	410974
680-219968-21	WGWC-22	Total Recoverable	Water	EPA 6020B	411448
MB 180-410974/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	410974
MB 180-411448/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	411448
LCS 180-410974/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	410974
LCS 180-411448/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	411448
680-219968-7 MS	WGWC-23	Total Recoverable	Water	EPA 6020B	410974
680-219968-7 MSD	WGWC-23	Total Recoverable	Water	EPA 6020B	410974

Analysis Batch: 413078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total Recoverable	Water	EPA 6020B	410974
680-219968-2	EB-05	Total Recoverable	Water	EPA 6020B	410974
680-219968-3	WGWC-9	Total Recoverable	Water	EPA 6020B	410974
680-219968-4	WGWC-16	Total Recoverable	Water	EPA 6020B	410974
680-219968-5	WGWC-15	Total Recoverable	Water	EPA 6020B	410974
680-219968-6	WGWC-25	Total Recoverable	Water	EPA 6020B	410974
680-219968-7	WGWC-23	Total Recoverable	Water	EPA 6020B	410974
680-219968-8	WGWC-19	Total Recoverable	Water	EPA 6020B	410974
680-219968-9	WGWC-12	Total Recoverable	Water	EPA 6020B	410974
680-219968-10	FB-03	Total Recoverable	Water	EPA 6020B	410974
680-219968-11	FD-02	Total Recoverable	Water	EPA 6020B	410974
680-219968-12	FB-02	Total Recoverable	Water	EPA 6020B	410974
680-219968-13	WGWC-8	Total Recoverable	Water	EPA 6020B	410974
680-219968-14	WGWC-20	Total Recoverable	Water	EPA 6020B	410974
680-219968-15	WGWC-13	Total Recoverable	Water	EPA 6020B	410974
680-219968-16	WGWC-24	Total Recoverable	Water	EPA 6020B	410974

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Metals (Continued)

Analysis Batch: 413078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-17	FD-03	Total Recoverable	Water	EPA 6020B	410974
680-219968-18	EB-06	Total Recoverable	Water	EPA 6020B	410974
680-219968-19	WGWC-10	Total Recoverable	Water	EPA 6020B	410974
680-219968-20	WGWC-14A	Total Recoverable	Water	EPA 6020B	410974
680-219968-21	WGWC-22	Total Recoverable	Water	EPA 6020B	411448
MB 180-410974/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	410974
MB 180-411448/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	411448
LCS 180-410974/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	410974
LCS 180-411448/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	411448
680-219968-7 MS	WGWC-23	Total Recoverable	Water	EPA 6020B	410974
680-219968-7 MSD	WGWC-23	Total Recoverable	Water	EPA 6020B	410974

Prep Batch: 736729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-2	WGWA-2	Total Recoverable	Water	3005A	
680-219893-3	FB-01	Total Recoverable	Water	3005A	
680-219893-4	WGWA-7	Total Recoverable	Water	3005A	
680-219893-5	WGWA-18	Total Recoverable	Water	3005A	
680-219893-6	WGWA-5	Total Recoverable	Water	3005A	
680-219893-7	EB-04	Total Recoverable	Water	3005A	
680-219893-8	WGWA-6	Total Recoverable	Water	3005A	
680-219893-9	WGWA-4	Total Recoverable	Water	3005A	
680-219893-10	WGWA-3	Total Recoverable	Water	3005A	
680-219893-11	WGWC-17	Total Recoverable	Water	3005A	
680-219893-12	FD-01	Total Recoverable	Water	3005A	
680-219893-13	WGWC-21	Total Recoverable	Water	3005A	
MB 680-736729/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-736729/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-219893-2 MS	WGWA-2	Total Recoverable	Water	3005A	
680-219893-2 MSD	WGWA-2	Total Recoverable	Water	3005A	

Prep Batch: 736973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-4	WGWC-16	Total Recoverable	Water	3005A	
680-219968-5	WGWC-15	Total Recoverable	Water	3005A	
680-219968-6	WGWC-25	Total Recoverable	Water	3005A	
680-219968-8	WGWC-19	Total Recoverable	Water	3005A	
680-219968-9	WGWC-12	Total Recoverable	Water	3005A	
680-219968-21	WGWC-22	Total Recoverable	Water	3005A	
MB 680-736973/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-736973/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 736978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total Recoverable	Water	3005A	
680-219968-2	EB-05	Total Recoverable	Water	3005A	
680-219968-3	WGWC-9	Total Recoverable	Water	3005A	
680-219968-10	FB-03	Total Recoverable	Water	3005A	
680-219968-11	FD-02	Total Recoverable	Water	3005A	
680-219968-12	FB-02	Total Recoverable	Water	3005A	
680-219968-13	WGWC-8	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Metals (Continued)

Prep Batch: 736978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-14	WGWC-20	Total Recoverable	Water	3005A	
680-219968-15	WGWC-13	Total Recoverable	Water	3005A	
680-219968-16	WGWC-24	Total Recoverable	Water	3005A	
680-219968-17	FD-03	Total Recoverable	Water	3005A	
680-219968-18	EB-06	Total Recoverable	Water	3005A	
680-219968-19	WGWC-10	Total Recoverable	Water	3005A	
680-219968-20	WGWC-14A	Total Recoverable	Water	3005A	
MB 680-736978/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-736978/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-219968-18 MS	EB-06	Total Recoverable	Water	3005A	
680-219968-18 MSD	EB-06	Total Recoverable	Water	3005A	

Prep Batch: 737002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total/NA	Water	7470A	
680-219893-2	WGWA-2	Total/NA	Water	7470A	
680-219893-3	FB-01	Total/NA	Water	7470A	
680-219893-4	WGWA-7	Total/NA	Water	7470A	
680-219893-5	WGWA-18	Total/NA	Water	7470A	
680-219893-6	WGWA-5	Total/NA	Water	7470A	
680-219893-7	EB-04	Total/NA	Water	7470A	
680-219893-8	WGWA-6	Total/NA	Water	7470A	
680-219893-9	WGWA-4	Total/NA	Water	7470A	
680-219893-10	WGWA-3	Total/NA	Water	7470A	
680-219893-11	WGWC-17	Total/NA	Water	7470A	
680-219893-12	FD-01	Total/NA	Water	7470A	
680-219893-13	WGWC-21	Total/NA	Water	7470A	
MB 680-737002/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-737002/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 737023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-7	WGWC-23	Total Recoverable	Water	3005A	
MB 680-737023/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-737023/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 737064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-2	WGWA-2	Total Recoverable	Water	6020B	736729
680-219893-3	FB-01	Total Recoverable	Water	6020B	736729
680-219893-4	WGWA-7	Total Recoverable	Water	6020B	736729
680-219893-5	WGWA-18	Total Recoverable	Water	6020B	736729
680-219893-6	WGWA-5	Total Recoverable	Water	6020B	736729
680-219893-7	EB-04	Total Recoverable	Water	6020B	736729
680-219893-8	WGWA-6	Total Recoverable	Water	6020B	736729
680-219893-9	WGWA-4	Total Recoverable	Water	6020B	736729
680-219893-10	WGWA-3	Total Recoverable	Water	6020B	736729
680-219893-11	WGWC-17	Total Recoverable	Water	6020B	736729
680-219893-12	FD-01	Total Recoverable	Water	6020B	736729
680-219893-13	WGWC-21	Total Recoverable	Water	6020B	736729
MB 680-736729/1-A	Method Blank	Total Recoverable	Water	6020B	736729

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Metals (Continued)

Analysis Batch: 737064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-736729/2-A	Lab Control Sample	Total Recoverable	Water	6020B	736729
680-219893-2 MS	WGWA-2	Total Recoverable	Water	6020B	736729
680-219893-2 MSD	WGWA-2	Total Recoverable	Water	6020B	736729

Analysis Batch: 737374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total/NA	Water	7470A	737002
680-219893-2	WGWA-2	Total/NA	Water	7470A	737002
680-219893-3	FB-01	Total/NA	Water	7470A	737002
680-219893-4	WGWA-7	Total/NA	Water	7470A	737002
680-219893-5	WGWA-18	Total/NA	Water	7470A	737002
680-219893-6	WGWA-5	Total/NA	Water	7470A	737002
680-219893-7	EB-04	Total/NA	Water	7470A	737002
680-219893-8	WGWA-6	Total/NA	Water	7470A	737002
680-219893-9	WGWA-4	Total/NA	Water	7470A	737002
680-219893-10	WGWA-3	Total/NA	Water	7470A	737002
680-219893-11	WGWC-17	Total/NA	Water	7470A	737002
680-219893-12	FD-01	Total/NA	Water	7470A	737002
680-219893-13	WGWC-21	Total/NA	Water	7470A	737002
MB 680-737002/1-A	Method Blank	Total/NA	Water	7470A	737002
LCS 680-737002/2-A	Lab Control Sample	Total/NA	Water	7470A	737002

Prep Batch: 737421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total/NA	Water	7470A	
680-219968-2	EB-05	Total/NA	Water	7470A	
680-219968-3	WGWC-9	Total/NA	Water	7470A	
680-219968-4	WGWC-16	Total/NA	Water	7470A	
680-219968-5	WGWC-15	Total/NA	Water	7470A	
680-219968-6	WGWC-25	Total/NA	Water	7470A	
680-219968-8	WGWC-19	Total/NA	Water	7470A	
680-219968-9	WGWC-12	Total/NA	Water	7470A	
680-219968-10	FB-03	Total/NA	Water	7470A	
680-219968-11	FD-02	Total/NA	Water	7470A	
680-219968-12	FB-02	Total/NA	Water	7470A	
680-219968-13	WGWC-8	Total/NA	Water	7470A	
680-219968-14	WGWC-20	Total/NA	Water	7470A	
680-219968-15	WGWC-13	Total/NA	Water	7470A	
680-219968-16	WGWC-24	Total/NA	Water	7470A	
680-219968-17	FD-03	Total/NA	Water	7470A	
680-219968-18	EB-06	Total/NA	Water	7470A	
680-219968-19	WGWC-10	Total/NA	Water	7470A	
680-219968-20	WGWC-14A	Total/NA	Water	7470A	
680-219968-21	WGWC-22	Total/NA	Water	7470A	
MB 680-737421/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-737421/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-219968-1 MS	WGWC-11	Total/NA	Water	7470A	
680-219968-1 MSD	WGWC-11	Total/NA	Water	7470A	

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Metals

Analysis Batch: 737479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total Recoverable	Water	6020B	736978
680-219968-2	EB-05	Total Recoverable	Water	6020B	736978
680-219968-3	WGWC-9	Total Recoverable	Water	6020B	736978
680-219968-4	WGWC-16	Total Recoverable	Water	6020B	736973
680-219968-5	WGWC-15	Total Recoverable	Water	6020B	736973
680-219968-6	WGWC-25	Total Recoverable	Water	6020B	736973
680-219968-7	WGWC-23	Total Recoverable	Water	6020B	737023
680-219968-8	WGWC-19	Total Recoverable	Water	6020B	736973
680-219968-9	WGWC-12	Total Recoverable	Water	6020B	736973
680-219968-10	FB-03	Total Recoverable	Water	6020B	736978
680-219968-11	FD-02	Total Recoverable	Water	6020B	736978
680-219968-12	FB-02	Total Recoverable	Water	6020B	736978
680-219968-13	WGWC-8	Total Recoverable	Water	6020B	736978
680-219968-14	WGWC-20	Total Recoverable	Water	6020B	736978
680-219968-15	WGWC-13	Total Recoverable	Water	6020B	736978
680-219968-16	WGWC-24	Total Recoverable	Water	6020B	736978
680-219968-17	FD-03	Total Recoverable	Water	6020B	736978
680-219968-18	EB-06	Total Recoverable	Water	6020B	736978
680-219968-19	WGWC-10	Total Recoverable	Water	6020B	736978
680-219968-20	WGWC-14A	Total Recoverable	Water	6020B	736978
680-219968-21	WGWC-22	Total Recoverable	Water	6020B	736973
MB 680-736973/1-A	Method Blank	Total Recoverable	Water	6020B	736973
MB 680-736978/1-A	Method Blank	Total Recoverable	Water	6020B	736978
MB 680-737023/1-A	Method Blank	Total Recoverable	Water	6020B	737023
LCS 680-736973/2-A	Lab Control Sample	Total Recoverable	Water	6020B	736973
LCS 680-736978/2-A	Lab Control Sample	Total Recoverable	Water	6020B	736978
LCS 680-737023/2-A	Lab Control Sample	Total Recoverable	Water	6020B	737023
680-219968-18 MS	EB-06	Total Recoverable	Water	6020B	736978
680-219968-18 MSD	EB-06	Total Recoverable	Water	6020B	736978

Analysis Batch: 737545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total/NA	Water	7470A	737421
680-219968-2	EB-05	Total/NA	Water	7470A	737421
680-219968-3	WGWC-9	Total/NA	Water	7470A	737421
680-219968-4	WGWC-16	Total/NA	Water	7470A	737421
680-219968-5	WGWC-15	Total/NA	Water	7470A	737421
680-219968-6	WGWC-25	Total/NA	Water	7470A	737421
680-219968-8	WGWC-19	Total/NA	Water	7470A	737421
680-219968-9	WGWC-12	Total/NA	Water	7470A	737421
680-219968-10	FB-03	Total/NA	Water	7470A	737421
680-219968-11	FD-02	Total/NA	Water	7470A	737421
680-219968-12	FB-02	Total/NA	Water	7470A	737421
680-219968-13	WGWC-8	Total/NA	Water	7470A	737421
680-219968-14	WGWC-20	Total/NA	Water	7470A	737421
680-219968-15	WGWC-13	Total/NA	Water	7470A	737421
680-219968-16	WGWC-24	Total/NA	Water	7470A	737421
680-219968-17	FD-03	Total/NA	Water	7470A	737421
680-219968-18	EB-06	Total/NA	Water	7470A	737421
680-219968-19	WGWC-10	Total/NA	Water	7470A	737421
680-219968-20	WGWC-14A	Total/NA	Water	7470A	737421

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Metals (Continued)

Analysis Batch: 737545 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-21	WGWC-22	Total/NA	Water	7470A	737421
MB 680-737421/1-A	Method Blank	Total/NA	Water	7470A	737421
LCS 680-737421/2-A	Lab Control Sample	Total/NA	Water	7470A	737421
680-219968-1 MS	WGWC-11	Total/NA	Water	7470A	737421
680-219968-1 MSD	WGWC-11	Total/NA	Water	7470A	737421

Prep Batch: 737617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-7	WGWC-23	Total/NA	Water	7470A	
MB 680-737617/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-737617/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 737961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-7	WGWC-23	Total/NA	Water	7470A	737617
MB 680-737617/1-A	Method Blank	Total/NA	Water	7470A	737617
LCS 680-737617/2-A	Lab Control Sample	Total/NA	Water	7470A	737617

Prep Batch: 737994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total Recoverable	Water	3005A	
MB 680-737994/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-737994/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 738421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total Recoverable	Water	6020B	737994
MB 680-737994/1-A	Method Blank	Total Recoverable	Water	6020B	737994
LCS 680-737994/2-A	Lab Control Sample	Total Recoverable	Water	6020B	737994

General Chemistry

Analysis Batch: 736898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total/NA	Water	2540C-2011	
680-219893-2	WGWA-2	Total/NA	Water	2540C-2011	
680-219893-3	FB-01	Total/NA	Water	2540C-2011	
680-219893-4	WGWA-7	Total/NA	Water	2540C-2011	
680-219893-5	WGWA-18	Total/NA	Water	2540C-2011	
680-219893-6	WGWA-5	Total/NA	Water	2540C-2011	
680-219893-7	EB-04	Total/NA	Water	2540C-2011	
680-219893-8	WGWA-6	Total/NA	Water	2540C-2011	
680-219893-9	WGWA-4	Total/NA	Water	2540C-2011	
680-219893-10	WGWA-3	Total/NA	Water	2540C-2011	
680-219968-7	WGWC-23	Total/NA	Water	2540C-2011	
MB 680-736898/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-736898/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-736898/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-219893-6 DU	WGWA-5	Total/NA	Water	2540C-2011	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

General Chemistry

Analysis Batch: 737144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-9	WGWC-12	Total/NA	Water	2540C-2011	
680-219968-14	WGWC-20	Total/NA	Water	2540C-2011	
MB 680-737144/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-737144/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-737144/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	

Analysis Batch: 737162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-11	WGWC-17	Total/NA	Water	2540C-2011	
680-219893-12	FD-01	Total/NA	Water	2540C-2011	
680-219893-13	WGWC-21	Total/NA	Water	2540C-2011	
680-219968-1	WGWC-11	Total/NA	Water	2540C-2011	
680-219968-2	EB-05	Total/NA	Water	2540C-2011	
680-219968-3	WGWC-9	Total/NA	Water	2540C-2011	
680-219968-4	WGWC-16	Total/NA	Water	2540C-2011	
680-219968-5	WGWC-15	Total/NA	Water	2540C-2011	
680-219968-6	WGWC-25	Total/NA	Water	2540C-2011	
680-219968-8	WGWC-19	Total/NA	Water	2540C-2011	
680-219968-10	FB-03	Total/NA	Water	2540C-2011	
680-219968-11	FD-02	Total/NA	Water	2540C-2011	
680-219968-12	FB-02	Total/NA	Water	2540C-2011	
680-219968-13	WGWC-8	Total/NA	Water	2540C-2011	
MB 680-737162/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-737162/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-737162/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-219893-13 DU	WGWC-21	Total/NA	Water	2540C-2011	

Analysis Batch: 737513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-15	WGWC-13	Total/NA	Water	2540C-2011	
680-219968-16	WGWC-24	Total/NA	Water	2540C-2011	
680-219968-17	FD-03	Total/NA	Water	2540C-2011	
680-219968-18	EB-06	Total/NA	Water	2540C-2011	
680-219968-19	WGWC-10	Total/NA	Water	2540C-2011	
680-219968-20	WGWC-14A	Total/NA	Water	2540C-2011	
680-219968-21	WGWC-22	Total/NA	Water	2540C-2011	
MB 680-737513/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-737513/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-737513/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-219968-16 DU	WGWC-24	Total/NA	Water	2540C-2011	
680-219968-17 DU	FD-03	Total/NA	Water	2540C-2011	

Field Service / Mobile Lab

Analysis Batch: 736841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total/NA	Water	Field Sampling	
680-219893-2	WGWA-2	Total/NA	Water	Field Sampling	
680-219893-4	WGWA-7	Total/NA	Water	Field Sampling	
680-219893-5	WGWA-18	Total/NA	Water	Field Sampling	
680-219893-6	WGWA-5	Total/NA	Water	Field Sampling	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 736841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-8	WGWA-6	Total/NA	Water	Field Sampling	
680-219893-9	WGWA-4	Total/NA	Water	Field Sampling	
680-219893-10	WGWA-3	Total/NA	Water	Field Sampling	
680-219893-11	WGWC-17	Total/NA	Water	Field Sampling	
680-219893-13	WGWC-21	Total/NA	Water	Field Sampling	
680-219968-1	WGWC-11	Total/NA	Water	Field Sampling	
680-219968-3	WGWC-9	Total/NA	Water	Field Sampling	
680-219968-4	WGWC-16	Total/NA	Water	Field Sampling	
680-219968-5	WGWC-15	Total/NA	Water	Field Sampling	
680-219968-6	WGWC-25	Total/NA	Water	Field Sampling	
680-219968-7	WGWC-23	Total/NA	Water	Field Sampling	
680-219968-8	WGWC-19	Total/NA	Water	Field Sampling	
680-219968-9	WGWC-12	Total/NA	Water	Field Sampling	
680-219968-13	WGWC-8	Total/NA	Water	Field Sampling	
680-219968-14	WGWC-20	Total/NA	Water	Field Sampling	
680-219968-15	WGWC-13	Total/NA	Water	Field Sampling	
680-219968-16	WGWC-24	Total/NA	Water	Field Sampling	
680-219968-19	WGWC-10	Total/NA	Water	Field Sampling	
680-219968-20	WGWC-14A	Total/NA	Water	Field Sampling	
680-219968-21	WGWC-22	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-1

Lab Sample ID: 680-219893-1

Date Collected: 08/15/22 13:25

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737667	08/26/22 20:12	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	737994	08/30/22 05:15	RR	EET SAV
Total Recoverable	Analysis	6020B		1			738421	09/01/22 00:25	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 17:42	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 14:15	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 14:15	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/15/22 13:25	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 680-219893-2

Date Collected: 08/15/22 14:50

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 21:15	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:09	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 17:45	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 14:43	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 14:43	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/15/22 14:50	T1C	EET SAV
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FB-01
Date Collected: 08/15/22 15:10
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 21:53	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:21	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 17:49	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 14:47	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 14:47	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7
Date Collected: 08/16/22 11:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 22:06	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:24	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 17:52	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 14:50	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 14:50	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 11:20	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-18

Lab Sample ID: 680-219893-5

Date Collected: 08/16/22 14:05

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 22:18	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:28	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 17:56	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 14:54	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 14:54	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 14:05	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 680-219893-6

Date Collected: 08/15/22 13:51

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 22:31	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:32	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 17:59	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 14:57	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 14:57	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/15/22 13:50	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: EB-04
Date Collected: 08/15/22 14:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 22:44	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:36	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 18:03	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 15:00	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 15:00	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:54	AS	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6
Date Collected: 08/15/22 15:00
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 22:56	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:47	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 18:06	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 15:04	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 15:04	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/15/22 15:00	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWA-4

Lab Sample ID: 680-219893-9

Date Collected: 08/16/22 10:20

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 23:09	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:51	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 18:09	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 15:18	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 15:18	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 10:20	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 680-219893-10

Date Collected: 08/16/22 11:15

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 23:22	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:55	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 18:20	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 15:21	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 15:21	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 11:15	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-17

Lab Sample ID: 680-219893-11

Date Collected: 08/16/22 12:21

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/26/22 23:34	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 21:59	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 18:23	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 15:25	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 15:25	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 12:21	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: FD-01

Lab Sample ID: 680-219893-12

Date Collected: 08/16/22 00:00

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 00:12	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 22:03	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 18:26	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 15:28	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 15:28	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-21

Lab Sample ID: 680-219893-13

Date Collected: 08/16/22 14:40

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 00:50	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736729	08/19/22 13:07	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737064	08/22/22 22:07	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7470A			50 mL	50 mL	737002	08/22/22 15:13	JKL	EET SAV
Total/NA	Analysis	7470A		1			737374	08/23/22 18:30	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411877	09/10/22 15:32	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410763	09/01/22 08:50	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			411893	09/10/22 15:32	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 14:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 680-219968-1

Date Collected: 08/16/22 16:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 01:16	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:16	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:21	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 16:39	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:15	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 16:00	T1C	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: EB-05
Date Collected: 08/16/22 15:10
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 01:28	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 15:58	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:28	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 16:43	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:17	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9
Date Collected: 08/17/22 10:00
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 01:41	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:11	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:31	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 16:46	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:20	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/17/22 10:00	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-16

Lab Sample ID: 680-219968-4

Date Collected: 08/17/22 11:40

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 01:54	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736973	08/22/22 14:04	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 17:21	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:34	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 16:49	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:23	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/17/22 11:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 680-219968-5

Date Collected: 08/17/22 12:55

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 02:06	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736973	08/22/22 14:04	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 17:34	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:41	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 16:53	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:26	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/17/22 12:55	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-25

Lab Sample ID: 680-219968-6

Date Collected: 08/17/22 14:40

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 02:19	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736973	08/22/22 14:04	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 17:28	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:44	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 16:56	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:29	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/17/22 14:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 680-219968-7

Date Collected: 08/17/22 15:50

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737668	08/27/22 02:31	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	737023	08/23/22 05:46	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 15:12	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737617	08/26/22 09:07	JKL	EET SAV
Total/NA	Analysis	7470A		1			737961	08/26/22 18:11	JKL	EET SAV
Instrument ID: LEEMAN2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 16:59	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:37	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	736898	08/22/22 10:53	AS	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/17/22 15:50	T1C	EET SAV
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-19

Lab Sample ID: 680-219968-8

Date Collected: 08/17/22 17:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 18:21	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736973	08/22/22 14:04	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 17:31	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:46	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 17:23	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 16:59	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/17/22 17:00	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 680-219968-9

Date Collected: 08/18/22 12:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 18:34	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736973	08/22/22 14:04	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 17:26	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:49	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 17:26	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:02	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737144	08/23/22 12:53	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/18/22 12:00	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FB-03
Date Collected: 08/17/22 16:35
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 18:46	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:27	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:51	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 17:29	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:05	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: FD-02
Date Collected: 08/17/22 00:00
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 18:59	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:14	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:54	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 17:33	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:08	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: FB-02
Date Collected: 08/16/22 15:30
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 19:12	AF	EET SAV
Instrument ID: CICK										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: FB-02
Date Collected: 08/16/22 15:30
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 15:56	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:56	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 17:36	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:16	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8
Date Collected: 08/16/22 15:55
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 19:24	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:19	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 12:59	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 17:39	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:19	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737162	08/23/22 13:36	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/16/22 15:55	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-20
Date Collected: 08/18/22 10:15
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 19:37	AF	EET SAV
Instrument ID: CICK										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-20
Date Collected: 08/18/22 10:15
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	737908	08/29/22 13:06	T1C	EET SAV
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 15:53	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:01	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 17:52	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:28	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737144	08/23/22 12:53	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/18/22 10:15	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13
Date Collected: 08/18/22 12:37
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 21:05	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:21	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:04	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 18:06	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:36	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737513	08/25/22 11:04	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/18/22 12:37	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-24

Lab Sample ID: 680-219968-16

Date Collected: 08/18/22 13:05

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 21:18	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:01	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:12	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 18:09	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:39	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737513	08/25/22 11:04	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/18/22 13:05	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: FD-03

Lab Sample ID: 680-219968-17

Date Collected: 08/18/22 00:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 21:31	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:09	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:14	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 18:19	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:42	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737513	08/25/22 11:04	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: EB-06
Date Collected: 08/18/22 11:25
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 21:43	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 15:43	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:17	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 18:22	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:45	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737513	08/25/22 11:04	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10
Date Collected: 08/19/22 10:10
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 21:56	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 15:50	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:19	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 18:26	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:48	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737513	08/25/22 11:04	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/19/22 10:10	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Client Sample ID: WGWC-14A

Lab Sample ID: 680-219968-20

Date Collected: 08/19/22 11:35

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 22:09	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736978	08/22/22 14:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 16:24	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:22	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 18:29	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	410974	09/02/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 17:50	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	737513	08/25/22 11:04	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/19/22 11:35	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-22

Lab Sample ID: 680-219968-21

Date Collected: 08/19/22 12:21

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	737765	08/27/22 22:21	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	736973	08/22/22 14:04	RR	EET SAV
Total Recoverable	Analysis	6020B		1			737479	08/24/22 17:23	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	737421	08/24/22 16:44	JKL	EET SAV
Total/NA	Analysis	7470A		1			737545	08/25/22 13:24	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	411448	09/08/22 15:09	NAF	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			412994	09/22/22 22:24	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	411448	09/08/22 15:09	NAF	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413078	09/23/22 15:24	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	737513	08/25/22 11:04	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			736841	08/19/22 12:21	T1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
Alaska (UST)	State	17-016	09-22-22
ANAB	Dept. of Defense ELAP	L2463	09-18-22
ANAB	ISO/IEC 17025	L2463.01	09-22-22
Arkansas DEQ	State	19-015-0	02-01-23
California	State	2939	06-30-22 *
Connecticut	State	PH-0161	03-31-23
Florida	NELAP	E87052	07-30-23
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-23
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-22
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	07-01-23
Kentucky (UST)	State	NA	06-30-23
Louisiana (All)	NELAP	<cert No.>	06-30-23
Louisiana (DW)	State	LA009	12-31-22
Maine	State	GA00006	09-25-22
Maryland	State	250	12-31-22
Massachusetts	State	M-GA006	07-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
New York	NELAP	10842	04-01-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	09-08-22
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-23
South Carolina	State	98001	06-30-22 *
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-22
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wisconsin	State	999819810	08-31-23

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22 *
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Laboratory: Eurofins Pittsburgh (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client Information Client Contact: <u>ASchmitt</u> SCS Contacts: <u>770-594-5998</u> Company: <u>GA Power</u>		Lab PM: <u>Fuller David</u> E-Mail: <u>David.Fuller@et.eurofins.com</u>		Camer Tracking No(s): COC No: <u>1 of 2</u> Page: <u>1 of 2</u> Job #:	
Due Date Requested: TAT Requested (days):		Analysis Requested			
Lab Project #: <u>68027766</u> PO #:		App III Metals: B, Ca App IV Metals (EPA 8020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9316/9320)			
Project Name: <u>CCP - Plant Wansley Ash Pcmd</u> Site:		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): Total Number of Containers:			
Sample Identification <u>WGWNA-1</u> <u>WGWNA-2</u> <u>FB-01</u> <u>WGWNA-7</u> <u>WGWNA-18</u>		Sample Date (mm/dd/yy): <u>08/15/22</u> <u>08/15/22</u> <u>08/15/22</u> <u>08/16/22</u> <u>08/16/22</u>		Sample Time (hh:mm): <u>1325</u> <u>1450</u> <u>1510</u> <u>1120</u> <u>1405</u>	
Sample Type (C=Comp, G=grab): Matrix (WG=ground water, WS=surface water, WQ=quality control): Preservation Code:		Special Instructions/Note: Full APP III and APP IV pH= 5.28 pH= 6.04 pH= NA pH= 5.32 pH= 6.19			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poiscn B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements			
Empty Kit Relinquished by		Method of Shipment:			
Relinquished by: <u>Taylor Galt</u>		Date/Time: <u>8/16/22 1500</u>		Company: <u>ACC</u>	
Relinquished by: <u>Taylor Galt</u>		Date/Time: <u>8/17/22 0845</u>		Company: <u>ACC</u>	
Relinquished by: <u>Taylor Galt</u>		Date/Time: <u>8/17/22 11:00</u>		Company: <u>ACC</u>	
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Cusody Seal No:		Cooler Temperature(s) °C and Other Remarks: <u>4.2/4.1 2.7/2.6 2.3/2.2</u> <u>8-18-22 1330</u> <u>REC JDL</u>			

680-219893 Chain of Custody



Chain of Custody Record

244-ATLANTA

ment Testing
 Air erica

Client Information		Lab PII:		Carrier Tracking No(s)		COC No:								
Client Contact: SCS Contacts		Fuller David				Page: 2 of 2								
Company: GA Power		E-Mail: david.fuller@eurofins.com				Job #:								
Due Date Requested:														
TAT Requested (days):														
Lab Project #: 68027766														
PO #:														
Project #:														
SSOW#:														
Address: 241 Ralph McGill Blvd SE														
City: Atlanta														
State, Zip: GA, 30308														
Phone: 404-506-7116(Tel)														
Email: SCS Contacts / Geosyntec Contacts														
Project Name: CER- Plant Wansley Ash Pond														
Site:														
Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hh:mm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WC=quality control)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals B, Ca	App IV Metals (EPA 6020/470)	Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 & 228 (SW-846 9316/9320)	Analysis Requested	Special Instructions/Note:	
WGWA-5	08/15/22	1350	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
EB-01	08/15/22	1420	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
WGWA-6	08/15/22	1500	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
WGWA-4	08/16/22	1020	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
WGWA-3	08/16/22	1115	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
WGWC-17	08/16/22	1221	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
FD-01	08/16/22	1440	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
WGWC-21	08/16/22	1440	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV	
			G			N	N							
			G			N	N							
			G			N	N							
Total Number of containers													6	pH= 6.57
Total Number of containers													6	pH= N/A
Total Number of containers													6	pH= 7.76
Total Number of containers													6	pH= 6.92
Total Number of containers													6	pH= 5.46
Total Number of containers													6	pH= 6.02
Total Number of containers													6	pH= N/A
Total Number of containers													6	pH= 6.72
Total Number of containers														pH=
Total Number of containers														pH=
Total Number of containers														pH=

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by _____ Date: _____

Relinquished by _____ Date/Time: 8/16/22 1500 Company: ACC

Relinquished by _____ Date/Time: 8-17-22 0845 Company: ACC

Relinquished by _____ Date/Time: 8/17/22 11:00 Company: ACC

Custody Seals Intact Yes No **Custody Seal No** _____

Relinquished by _____ Date/Time: 8/16/22 Company: ACC

Relinquished by _____ Date/Time: 8/17/22 0845 Company: ACC

Relinquished by _____ Date/Time: 8/17/22 11:00 Company: ACC

Cooler Temperature(s) and Other Remarks: 4.2/4.1

8-18-22 1330

Ver: 01/16/2019



Chain of Custody record

Eurofins TestAmerica, Savannah
5102 LaRoc anue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Client Information			Carrier Tracking No(s):		COC No:	
Company: GA Power			244-ATLANTA		1 of 3	
Address: 241 Ralph McGill Blvd SE			Lab PM: Fuller David		Job #:	
City: Atlanta			E-Mail: david.fuller@et.eurolins.com			
State, Zip: GA, 30308			Phone: 770 5945998			
Phone: 404-506-7116(Tel)			Due Date Requested:			
Email: 68027766			TAT Requested (days):			
Project Name: CER - Plant Wansley Ash Pond			Lab Project #:			
Site:			PO #:			
SSOW#:			Project #:			
Sample Identification			Analysis Requested		Special Instructions/Note:	
Sample ID	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (background water, W=quality control)	Preservation Code	Total Number of Containers
WGWC-11	08/16/22	1600	G	WG	G	6
EB-05	08/16/22	1510	G	WQ	G	6
WGWC-9	08/17/22	1800	G	WG	G	6
WGWC-16	08/17/22	1140	G	WG	G	6
WGWC-15	08/17/22	1255	G	WG	G	6
WGWC-25	08/17/22	1440	G	WG	G	6
WGWC-23	08/17/22	1550	G	WG	G	6
WGWC-19	08/17/22	1700	G	WG	G	6
WGWC-12	08/18/22	1200	G	WG	G	6
FB-03	08/17/22	1635	G	WQ	G	6
FD-02	08/17/22	-	G	WG	G	6
App III Metals B, Ca App IV Metals (EPA 6020/470) Sp,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mn,Se,11 Radium 226 & 228 (SW-846 9316/9320)			Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) CI, F, SO4 & TDS (EPA 300 & SM 2540C) App IV Metals (EPA 6020/470) Sp,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mn,Se,11 Radium 226 & 228 (SW-846 9316/9320)		Special Instructions/Note: Full APP III and APP IV	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			Special Instructions/QC Requirements			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Deliverable Requested I, II, III IV Other (specify)			
Empty Kit Relinquished by:			Method of Shipment:			
Relinquished by:			Date: 8/18/22 1600		Company: ACC	
Relinquished by:			Date: 8/19/22 1459		Company: ACC	
Relinquished by:			Date: 8/19/22 1400		Company: ACC	
Custody Seals Intact: Δ Yes Δ No			Cooler Temperature(s) °C and Other Remarks: 0.5/0.2 0.5/0.4 3.1/3.0 1.5/1.4 3.2/3.4			



Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State: GA, Zip: 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts / Geosyntec Contacts Project Name: COR Plant Wansley Ash Pond Site:		Sampler: J. Boyd Lab PM: Fuller, David Phone: 770-544-5498 E-Mail: david.fuller@et.eurofins.com		Carrier Tracking No(s) COC No: 2 of 2 Page: 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): Lab Project #: 68027766 PO #: Project #: SSOW#:		Analysis Requested			
Sample Identification FB-02 FB-02 W6WC-8 W6WC-20 W6WC-13 W6WC-24 FD-03 EB-06 W6WC-10 W6WC-14A W6WC-22		Sample Date (mm/dd/yy) 08/16/22 08/16/22 08/16/22 08/18/22 08/18/22 08/18/22 08/18/22 08/19/22 08/19/22 08/19/22		Sample Time (hhmm) 1530 1530 1555 1015 1237 1305 1125 1010 1135 1221	
Sample Type (C=Comp, G=grab) Preservation Code: WQ Matrix (W=ground water, WS=surface water, WQ=quality control)		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) App III Metals B, Ca Cl, F, SO4 & TDS (EPA 300 & SM 2540C) Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9316/9320)		Total Number of Containers pH: 6 pH: 6 pH: 6 pH: 6 pH: 6 pH: 6 pH: 6 pH: 6 pH: 6 pH: 6	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I, II, III, IV Other (specify)		Special Instructions/QC Requirements			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date/Time: 8/19/22 1455 Company: AC		Received by: [Signature] Date/Time: 8/19/22 1455 Company:			
Relinquished by: [Signature] Date/Time: 8/19/22 1455 Company:		Received by: [Signature] Date/Time: 8/19/22 800 Company: M			
Relinquished by: [Signature] Date/Time: 8/19/22 1455 Company:		Received by: [Signature] Date/Time: 8/19/22 800 Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



PA-US
PTT
15238

AGCA

416 3994

SATURDAY 12:00P
PRIORITY OVERNIGHT



680-219893 Waybill



J22/202203282801 UV

519 CFE #1

REF: 8680-138483
PITTSBURGH PA 15238
PO: YES (412) 963-7068

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

ORIGIN ID: SAVA (912) 354-7858
SHIPPING/TESTAMERICA
5102 LA ROCHE AVE
SAVANNAH, GA 31404
UNITED STATES US

SHIP DATE: 19AUG22
ACTWGT: 5.00 LB MAN
CAD: 0801261/CAFE3616
BILL SENDER

FedEx Saturday

151966 10/04 MWI

aturday Delivery

SDR



- 1
- 2
- 3
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- 5
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- 7
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- 11
- 12

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- 9
- 10
- 11
- 12

TestAmerica

THE LEADER IN **RT 98** **1** **A** **ING**
FZ **10:30** **4372**
08.24

PC 159469-434 NTW EXP 01/23

ORIGIN ID:SAVA (912) 354-7858
 SHIPPING
 EUROFINS/TESTAMERICA
 5102 LA ROUCHE AVE

SHIP DATE: 23AUG22
 ACTWT: 25.00 LB MAN
 CAD: 0801261/CAFE3616

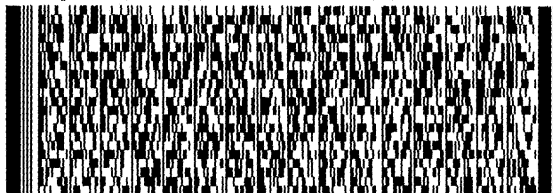
SAVANNAH, GA 31404
 UNITED STATES US

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058 REF: S680-138592
 PO: YES

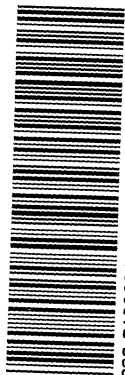
434/434
 577C/F48/222



FedEx
 Express



IN 10802620220222



680-219968 Waybill

TRK# 1328 9416 4372
 0201

WED - 24 AUG 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
 PA-US **PIT**

Uncorrected temp 19.1 °C
 Thermometer ID 8

CF -0.7 Initials OC

PT-WI-SR-001 effective 11/8/18

NO ICE



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax 912-352-0165

Not 14 AA
Chain of Custody Record



Environment Testing
America



680-219893 Chain of Custody

Client Information (Sub Contract Lab)
 Shipping/Receiving
 Company: Eurofins Environment Testing Northeast
 Address: 301 Alpha Drive, RIDC Park, Pittsborough, NC 27681
 City: Pittsborough, State: NC, Zip: 27681
 Phone: 412-963-7058 (Tel) 412-963-2468 (Fax)
 Email: [Redacted]
 Project Name: Plant Wansley - Ash Pond
 Site: [Redacted]

Accreditations Required (See note)

Due Date Requested: 8/31/2022
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 68027766
 SOW #:

6020B/3005A Custom 6 (App III + App IV)

Perform MS/MSD (Yes or No)

Field Filtered Sample (Yes or No)

Preservation Code:

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

680-219893-1

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Y - Trizma
 Z - other (specify)

A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Total Number of containers

Special Instructions/Note:

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

6020B/3005A Custom 6 (App III + App IV)

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Matrix

Sample Type

Sample Time

Sample Date

Sample Identification - Client ID (Lab ID)

Preservation Code

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/least/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2
 Empty Kit Relinquished by
 Relinquished by: [Signature] Date: 8/19 8:50 Company: [Redacted]
 Relinquished by: [Signature] Date/Time: [Redacted] Company: [Redacted]
 Relinquished by: [Signature] Date/Time: [Redacted] Company: [Redacted]
 Custody Seals Intact. Custody Seal No. [Redacted]
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements

Method of Shipment: [Redacted]

Received by: [Signature] Date/Time: 8-20-22 Company: [Redacted]

Received by: [Signature] Date/Time: 9:00 Company: [Redacted]

Received by: [Signature] Date/Time: [Redacted] Company: [Redacted]

Ver: 06/08/2021



Chain of Custody Record

Client Information (Sub Contract Lab)

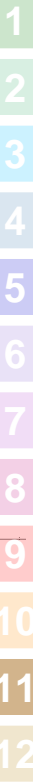
Client Contact: Shipping/Receiving
 Company: Eurofins Environment Testing Northeast,
 Address: 301 Alpha Drive, RIDC Park,
 City: Pittsborough
 State, Zip: PA, 15238
 Phone: 412-963-7058(Tel) 412-963-2468(Fax)
 Email:
 Project Name: Plant Wansley - Ash Pond
 Site:
 Lab PM: Fuller, David
 E-Mail: David.Fuller@et.eurofins.com
 Carrier Tracking No(s): 680-705455 2
 State of Origin: Georgia
 Page: Page 2 of 2
 Job #: 680-219893-1

Due Date Requested: 8/31/2022
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 68027766
 SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005A Custom 6 (App III + App IV)	Total Number of Containers	Special Instructions/Note:	Analysis Requested	
											A - HCL	M - Hexane
WGWA-3 (680-219893-10)	8/16/22	11:15 Eastern	Water	Water		X	X	X	1			
WGW-17 (680-219893-11)	8/16/22	12:21 Eastern	Water	Water		X	X	X	1			
FD-01 (680-219893-12)	8/16/22	Eastern	Water	Water		X	X	X	1			
WGW-21 (680-219893-13)	8/16/22	14:40 Eastern	Water	Water		X	X	X	1			

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested I, II, III, IV, Other (specify): Primary Deliverable Rank 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: [Signature] Date/Time: 8/19 8:30 Company: Company
 Relinquished by: _____ Date/Time: _____ Company: Company
 Relinquished by: _____ Date/Time: _____ Company: Company
 Custody Seals Intact. _____ Custody Seal No: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Method of Shipment: _____
 Received by: [Signature] Date/Time: 8-20-22 Company: Company
 Received by: [Signature] Date/Time: 9:00 Company: Company
 Received by: _____ Date/Time: _____ Company: Company



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax 912-352-0165

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
Lab PM: Fuller, David
E-Mail: David.Fuller@et.eurofins.com

Company: Eurofins Environment Testing Northeast

Address: 301 Alpha Drive, RIDC Park,

City: Pittsburgh

State Zip: PA, 15238

Phone: 412-963-7058(Tel) 412-963-2468(Fax)

Email:

Project Name: Plant Wansley Ash Pond

Project #: 68027766

SSOW#:

Due Date Requested: 9/1/2022

TAT Requested (days):

PO #:

WO #:

6020B/3005A Custom 6 (App III + App IV)

Perform MS/MSD (Yes or No)

Field Filtered Sample (Yes or No)

Preservation Code:

Matrix (W=water, S=soil, O=water/soil, BT=Tissue, A=Air)

Sample Type (C=Comp, G=Grab)

Sample Time

Sample Date

16 00 Eastern

8/16/22

Water

X

15 10 Eastern

8/16/22

Water

X

10 00 Eastern

8/17/22

Water

X

11 40 Eastern

8/17/22

Water

X

12 55 Eastern

8/17/22

Water

X

14 40 Eastern

8/17/22

Water

X

15 50 Eastern

8/17/22

Water

X

17 00 Eastern

8/17/22

Water

X

12 00 Eastern

8/18/22

Water

X

Special Instructions/Note:

Total Number of containers

1

1

1

1

1

Job # 680-219968-1

Preservation Codes:

A - HCL

B - NaOH

C - Zn Acetate

D - Nitric Acid

E - NaHSO4

F - MeOH

G - Amchlor

H - Ascorbic Acid

I - Ice

J - DI Water

K - EDTA

L - EDA

Other:

M - Hexane

N - None

O - AsNaO2

P - Na2OAS

Q - Na2SO3

R - Na2S2O3

S - H2SO4

T - TSP Dodecahydrate

U - Acetone

V - MCAA

W - pH 4.5

Y - Trizma

Z - other (Specify)

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification
Unconfirmed
Return To Client Disposal By Lab Archive For Months

Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2
Special Instructions/QC Requirements

Empty Kit Relinquished by
Relinquished by
Relinquished by
Relinquished by

Date/Time: 8/29/22 1730
Date/Time: 8/29/22 1730
Date/Time: 8/29/22 1730
Date/Time: 8/29/22 1730

Company: Company
Company: Company
Company: Company
Company: Company

Received by: [Signature]
Received by: [Signature]
Received by: [Signature]
Received by: [Signature]

Cooler Temperature(s) °C and Other Remarks

Custody Seal Intact Custody Seal No

Ver: 06/08/2021

1 2 3 4 5 6 7 8 9 10 11 12

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM Fuller, David	Carrier Tracking No(s) 680-705925 2
Client Contact Shipping/Receiving		E-Mail David Fuller@et.eurofins.com	Page Page 2 of 3
Company Eurofins Environment Testing Northeast,		Job # 680-219968-1	
Address 301 Alpha Drive, RIDC Park,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City Pittsburgh		MI - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
State, Zip PA, 15238		Total Number of containers	
Phone 412-963-7058(Tel) 412-963-2468(Fax)		Analysis Requested	
Email		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	
Project # 68027766		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Site		6020B/3005A Custom 5 (App III + App IV) <input checked="" type="checkbox"/>	
Special Instructions/Note:		Special Instructions/Note:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Solid, O=Wastewater)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers
FB-03 (680-219968-10)	8/17/22	16:35 Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
FD-02 (680-219968-11)	8/17/22	Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
FB-02 (680-219968-12)	8/16/22	15:30 Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
WGC-8 (680-219968-13)	8/16/22	15:55 Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
WGC-20 (680-219968-14)	8/18/22	10:15 Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
WGC-13 (680-219968-15)	8/18/22	12:37 Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
WGC-24 (680-219968-16)	8/18/22	13:05 Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
FD-03 (680-219968-17)	8/18/22	Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
EB-06 (680-219968-18)	8/18/22	11:25 Eastern		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing, Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification	
Unconfirmed	Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	
Special Instructions/QC Requirements	
Method of Shipment	
Empty Kit Relinquished by	Date
Relinquished by <i>of</i>	Date/Time 8/23/22 17:00
Relinquished by	Date/Time
Relinquished by	Date/Time
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No
Cooler Temperature(s) °C and Other Remarks	
Received by <i>Glance</i>	Date/Time 8/24/22 9:00
Received by	Date/Time
Received by	Date/Time
Company	
Company	
Company	



Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: Eurofins Environment Testing Northeast, Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh State, Zip: PA, 15238 Phone: 412-963-7058(Tel) 412-963-2468(Fax) Email:	Sampler: Lab PM Fuller, David Phone: E-Mail: David Fuller@et.eurofins.com Accreditations Required (See note)	Carrier Tracking No(s): 680-705925 3 State of Origin: Georgia Job #: 680-219968-1	Page 3 of 3 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
---	--	---	--

Due Date Requested: 9/1/2022	TAT Requested (days):	Matrix (Water, Solid, Organic)	Sample Type (C=Comp, G=grab)	Sample Time	Sample Date	Analysis Requested		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	620B/3005A Custom 6 (App III + App IV)	Total Number of Containers	Special Instructions/Note:
						Preservation Code:	Other:					
8/19/22	10 10 Eastern	Water			8/19/22	X		X			1	
8/19/22	11 35 Eastern	Water			8/19/22	X		X			1	
8/19/22	12 21 Eastern	Water			8/19/22	X		X			1	

Sample Identification - Client ID (Lab ID)

WGWC-10 (680-219968-19)
 WGWC-14A (680-219968-20)
 WGWC-22 (680-219968-21)

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months

Unconfirmed Deliverable Requested I, II, III, IV, Other (specify) **Primary Deliverable Rank 2**

Empty Kit Relinquished by	Date	Time
Relinquished by <i>g</i>	8/27/22	1730
Relinquished by		
Relinquished by		

Received by <i>g</i>	Date/Time	Company
Received by	8/24/22 9 00	Company
Received by		Company

Cooler Temperature(s) °C and Other Remarks



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-1

Login Number: 219893

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-1

Login Number: 219893

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 08/20/22 07:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-1

Login Number: 219968

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-1

Login Number: 219968

List Number: 3

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 08/24/22 05:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-219893-2

Client Project/Site: Plant Wansley - Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Robert (Trey) Singleton



Authorized for release by:
9/30/2022 6:35:18 PM

David Fuller, Project Manager
(770)344-8986

David.Fuller@et.eurofinsus.com

LINKS

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results through



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-219893-1	WGWA-1	Water	08/15/22 13:25	08/18/22 13:30
680-219893-2	WGWA-2	Water	08/15/22 14:50	08/18/22 13:30
680-219893-3	FB-01	Water	08/15/22 15:10	08/18/22 13:30
680-219893-4	WGWA-7	Water	08/16/22 11:20	08/18/22 13:30
680-219893-5	WGWA-18	Water	08/16/22 14:05	08/18/22 13:30
680-219893-6	WGWA-5	Water	08/15/22 13:51	08/18/22 13:30
680-219893-7	EB-04	Water	08/15/22 14:20	08/18/22 13:30
680-219893-8	WGWA-6	Water	08/15/22 15:00	08/18/22 13:30
680-219893-9	WGWA-4	Water	08/16/22 10:20	08/18/22 13:30
680-219893-10	WGWA-3	Water	08/16/22 11:15	08/18/22 13:30
680-219893-11	WGWC-17	Water	08/16/22 12:21	08/18/22 13:30
680-219893-12	FD-01	Water	08/16/22 00:00	08/18/22 13:30
680-219893-13	WGWC-21	Water	08/16/22 14:40	08/18/22 13:30
680-219968-1	WGWC-11	Water	08/16/22 16:00	08/20/22 08:00
680-219968-2	EB-05	Water	08/16/22 15:10	08/20/22 08:00
680-219968-3	WGWC-9	Water	08/17/22 10:00	08/20/22 08:00
680-219968-4	WGWC-16	Water	08/17/22 11:40	08/20/22 08:00
680-219968-5	WGWC-15	Water	08/17/22 12:55	08/20/22 08:00
680-219968-6	WGWC-25	Water	08/17/22 14:40	08/20/22 08:00
680-219968-7	WGWC-23	Water	08/17/22 15:50	08/20/22 08:00
680-219968-8	WGWC-19	Water	08/17/22 17:00	08/20/22 08:00
680-219968-9	WGWC-12	Water	08/18/22 12:00	08/20/22 08:00
680-219968-10	FB-03	Water	08/17/22 16:35	08/20/22 08:00
680-219968-11	FD-02	Water	08/17/22 00:00	08/20/22 08:00
680-219968-12	FB-02	Water	08/16/22 15:30	08/20/22 08:00
680-219968-13	WGWC-8	Water	08/16/22 15:55	08/20/22 08:00
680-219968-14	WGWC-20	Water	08/18/22 10:15	08/20/22 08:00
680-219968-15	WGWC-13	Water	08/18/22 12:37	08/20/22 08:00
680-219968-16	WGWC-24	Water	08/18/22 13:05	08/20/22 08:00
680-219968-17	FD-03	Water	08/18/22 00:00	08/20/22 08:00
680-219968-18	EB-06	Water	08/18/22 11:25	08/20/22 08:00
680-219968-19	WGWC-10	Water	08/19/22 10:10	08/20/22 08:00
680-219968-20	WGWC-14A	Water	08/19/22 11:35	08/20/22 08:00
680-219968-21	WGWC-22	Water	08/19/22 12:21	08/20/22 08:00

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Job ID: 680-219893-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-219893-2

Receipt

The samples were received on 8/18/2022 1:30 PM and 8/20/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 0.2°C, 0.4°C, 1.4°C, 2.2°C, 2.6°C, 3.0°C, 3.1°C and 4.1°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 Prep Batch 160-580457 Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWC-11 (680-219968-1), EB-05 (680-219968-2), WGWC-9 (680-219968-3), WGWC-16 (680-219968-4), WGWC-15 (680-219968-5), WGWC-25 (680-219968-6), WGWC-23 (680-219968-7), WGWC-19 (680-219968-8), WGWC-12 (680-219968-9), FB-03 (680-219968-10), FD-02 (680-219968-11), FB-02 (680-219968-12), WGWC-8 (680-219968-13), WGWC-20 (680-219968-14), WGWC-13 (680-219968-15), WGWC-24 (680-219968-16), FD-03 (680-219968-17), EB-06 (680-219968-18), WGWC-10 (680-219968-19) and WGWC-14A (680-219968-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 579082 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWA-1 (680-219893-1), WGWA-2 (680-219893-2), FB-01 (680-219893-3), WGWA-7 (680-219893-4), WGWA-18 (680-219893-5), WGWA-5 (680-219893-6), EB-04 (680-219893-7), WGWA-6 (680-219893-8), WGWA-4 (680-219893-9), WGWA-3 (680-219893-10), WGWC-17 (680-219893-11), FD-01 (680-219893-12), WGWC-21 (680-219893-13), (LCS 160-579082/2-A), (MB 160-579082/1-A), (160-46717-A-1-A) and (160-46717-A-1-B DU)

Method 9315_Ra226: Radium-226 batch 580457 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-11 (680-219968-1), EB-05 (680-219968-2), WGWC-9 (680-219968-3), WGWC-16 (680-219968-4), WGWC-15 (680-219968-5), WGWC-25 (680-219968-6), WGWC-23 (680-219968-7), WGWC-19 (680-219968-8), WGWC-12 (680-219968-9), FB-03 (680-219968-10), FD-02 (680-219968-11), FB-02 (680-219968-12), WGWC-8 (680-219968-13), WGWC-20 (680-219968-14), WGWC-13 (680-219968-15), WGWC-24 (680-219968-16), FD-03 (680-219968-17), EB-06 (680-219968-18), WGWC-10 (680-219968-19), WGWC-14A (680-219968-20), (LCS 160-580457/2-A), (LCSD 160-580457/3-A) and (MB 160-580457/1-A)

Method 9315_Ra226: Radium-226 batch 580464 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-22 (680-219968-21), (LCS 160-580464/2-A), (MB 160-580464/1-A), (160-172278-B-1-A) and (160-172278-D-1-A DU)

Method 9320_Ra228: Radium-228 prep batch 160-579086: Samples were prepared at a reduced aliquot due to insufficient sample volume.

Method 9320_Ra228: Radium-228 prep batch 160-579086: The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 128% (LCS 160-579086/2-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS is within criteria and no further action is required.

Method 9320_Ra228: Radium-228 prep batch 160-579086: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWA-1 (680-219893-1), WGWA-2 (680-219893-2), FB-01 (680-219893-3), WGWA-7 (680-219893-4), WGWA-18 (680-219893-5), WGWA-5 (680-219893-6), EB-04 (680-219893-7), WGWA-6 (680-219893-8), WGWA-4 (680-219893-9), WGWA-3 (680-219893-10), WGWC-17 (680-219893-11), FD-01 (680-219893-12), WGWC-21 (680-219893-13), (LCS 160-579086/2-A), (MB 160-579086/1-A), (160-46717-A-1-C) and (160-46717-A-1-D DU)

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Job ID: 680-219893-2 (Continued)

Laboratory: Eurofins Savannah (Continued)

Method 9320_Ra228: Radium-228 Prep Batch 160-580463 Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWC-11 (680-219968-1), EB-05 (680-219968-2), WGWC-9 (680-219968-3), WGWC-16 (680-219968-4), WGWC-15 (680-219968-5), WGWC-25 (680-219968-6), WGWC-23 (680-219968-7), WGWC-19 (680-219968-8), WGWC-12 (680-219968-9), FB-03 (680-219968-10), FD-02 (680-219968-11), FB-02 (680-219968-12), WGWC-8 (680-219968-13), WGWC-20 (680-219968-14), WGWC-13 (680-219968-15), WGWC-24 (680-219968-16), FD-03 (680-219968-17), EB-06 (680-219968-18), WGWC-10 (680-219968-19) and WGWC-14A (680-219968-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 580463 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-11 (680-219968-1), EB-05 (680-219968-2), WGWC-9 (680-219968-3), WGWC-16 (680-219968-4), WGWC-15 (680-219968-5), WGWC-25 (680-219968-6), WGWC-23 (680-219968-7), WGWC-19 (680-219968-8), WGWC-12 (680-219968-9), FB-03 (680-219968-10), FD-02 (680-219968-11), FB-02 (680-219968-12), WGWC-8 (680-219968-13), WGWC-20 (680-219968-14), WGWC-13 (680-219968-15), WGWC-24 (680-219968-16), FD-03 (680-219968-17), EB-06 (680-219968-18), WGWC-10 (680-219968-19), WGWC-14A (680-219968-20), (LCS 160-580463/2-A), (LCSD 160-580463/3-A) and (MB 160-580463/1-A)

Method 9320_Ra228: Radium 228 Batch 583204: The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. WGWC-22 (680-219968-21) and (500-221192-G-5-A)

Method 9320_Ra228: Radium 228 Batch 583204: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-22 (680-219968-21), (LCS 160-583204/2-A), (MB 160-583204/1-A), (500-221192-G-5-A) and (500-221192-G-5-B DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWA-1

Lab Sample ID: 680-219893-1

Date Collected: 08/15/22 13:25

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0653	U	0.0523	0.0527	1.00	0.0741	pCi/L	08/23/22 13:24	09/14/22 07:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					08/23/22 13:24	09/14/22 07:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.494		0.306	0.309	1.00	0.454	pCi/L	08/23/22 14:02	08/31/22 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					08/23/22 14:02	08/31/22 11:14	1
Y Carrier	97.2		40 - 110					08/23/22 14:02	08/31/22 11:14	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.559		0.310	0.313	5.00	0.454	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWA-2

Lab Sample ID: 680-219893-2

Date Collected: 08/15/22 14:50

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0271	U	0.0518	0.0519	1.00	0.0927	pCi/L	08/23/22 13:24	09/14/22 07:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					08/23/22 13:24	09/14/22 07:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.698		0.307	0.313	1.00	0.405	pCi/L	08/23/22 14:02	08/31/22 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					08/23/22 14:02	08/31/22 11:14	1
Y Carrier	99.4		40 - 110					08/23/22 14:02	08/31/22 11:14	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWA-2

Lab Sample ID: 680-219893-2

Date Collected: 08/15/22 14:50

Matrix: Water

Date Received: 08/18/22 13:30

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.725		0.311	0.317	5.00	0.405	pCi/L		09/15/22 14:56	1

Client Sample ID: FB-01

Lab Sample ID: 680-219893-3

Date Collected: 08/15/22 15:10

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00452	U	0.0448	0.0448	1.00	0.0909	pCi/L	08/23/22 13:24	09/14/22 07:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					08/23/22 13:24	09/14/22 07:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.424	U	0.301	0.304	1.00	0.459	pCi/L	08/23/22 14:02	08/31/22 11:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					08/23/22 14:02	08/31/22 11:17	1
Y Carrier	99.1		40 - 110					08/23/22 14:02	08/31/22 11:17	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.428	U	0.304	0.307	5.00	0.459	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWA-7

Lab Sample ID: 680-219893-4

Date Collected: 08/16/22 11:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0325	U	0.0517	0.0518	1.00	0.0896	pCi/L	08/23/22 13:24	09/14/22 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					08/23/22 13:24	09/14/22 07:14	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWA-7

Lab Sample ID: 680-219893-4

Date Collected: 08/16/22 11:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.620		0.271	0.277	1.00	0.345	pCi/L	08/23/22 14:02	08/31/22 11:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					08/23/22 14:02	08/31/22 11:17	1
Y Carrier	99.8		40 - 110					08/23/22 14:02	08/31/22 11:17	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.653		0.276	0.282	5.00	0.345	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWA-18

Lab Sample ID: 680-219893-5

Date Collected: 08/16/22 14:05

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0906	U	0.0677	0.0682	1.00	0.0963	pCi/L	08/23/22 13:24	09/14/22 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					08/23/22 13:24	09/14/22 07:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.361	0.375	1.00	0.423	pCi/L	08/23/22 14:02	08/31/22 11:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					08/23/22 14:02	08/31/22 11:18	1
Y Carrier	98.7		40 - 110					08/23/22 14:02	08/31/22 11:18	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.18		0.367	0.381	5.00	0.423	pCi/L		09/15/22 14:56	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWA-5

Lab Sample ID: 680-219893-6

Date Collected: 08/15/22 13:51

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.440		0.171	0.175	1.00	0.166	pCi/L	08/23/22 13:24	09/14/22 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					08/23/22 13:24	09/14/22 07:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.94		0.699	0.722	1.00	0.878	pCi/L	08/23/22 14:02	08/31/22 11:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					08/23/22 14:02	08/31/22 11:18	1
Y Carrier	97.9		40 - 110					08/23/22 14:02	08/31/22 11:18	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.38		0.720	0.743	5.00	0.878	pCi/L		09/15/22 14:56	1

Client Sample ID: EB-04

Lab Sample ID: 680-219893-7

Date Collected: 08/15/22 14:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0237	U	0.0279	0.0280	1.00	0.0804	pCi/L	08/23/22 13:24	09/14/22 07:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					08/23/22 13:24	09/14/22 07:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.259	0.259	1.00	0.436	pCi/L	08/23/22 14:02	08/31/22 11:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					08/23/22 14:02	08/31/22 11:18	1
Y Carrier	98.7		40 - 110					08/23/22 14:02	08/31/22 11:18	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: EB-04
Date Collected: 08/15/22 14:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-7
Matrix: Water

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.156	U	0.260	0.261	5.00	0.436	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWA-6
Date Collected: 08/15/22 15:00
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-8
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.34		0.298	0.423	1.00	0.0799	pCi/L	08/23/22 13:24	09/14/22 07:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					08/23/22 13:24	09/14/22 07:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.24		0.693	0.900	1.00	0.446	pCi/L	08/23/22 14:02	08/31/22 11:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					08/23/22 14:02	08/31/22 11:18	1
Y Carrier	99.1		40 - 110					08/23/22 14:02	08/31/22 11:18	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	9.58		0.754	0.994	5.00	0.446	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWA-4
Date Collected: 08/16/22 10:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-9
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.602		0.136	0.147	1.00	0.108	pCi/L	08/23/22 13:24	09/14/22 07:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					08/23/22 13:24	09/14/22 07:16	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWA-4

Lab Sample ID: 680-219893-9

Date Collected: 08/16/22 10:20

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.41		0.377	0.399	1.00	0.407	pCi/L	08/23/22 14:02	08/31/22 11:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					08/23/22 14:02	08/31/22 11:18	1
Y Carrier	100		40 - 110					08/23/22 14:02	08/31/22 11:18	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.02		0.401	0.425	5.00	0.407	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWA-3

Lab Sample ID: 680-219893-10

Date Collected: 08/16/22 11:15

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0168	U	0.0449	0.0449	1.00	0.0844	pCi/L	08/23/22 13:24	09/14/22 07:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					08/23/22 13:24	09/14/22 07:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.611		0.292	0.298	1.00	0.401	pCi/L	08/23/22 14:02	08/31/22 11:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					08/23/22 14:02	08/31/22 11:19	1
Y Carrier	99.4		40 - 110					08/23/22 14:02	08/31/22 11:19	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.628		0.295	0.301	5.00	0.401	pCi/L		09/15/22 14:56	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-17

Lab Sample ID: 680-219893-11

Date Collected: 08/16/22 12:21

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0415	U	0.0643	0.0644	1.00	0.111	pCi/L	08/23/22 13:24	09/14/22 07:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					08/23/22 13:24	09/14/22 07:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.627		0.362	0.366	1.00	0.518	pCi/L	08/23/22 14:02	08/31/22 11:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					08/23/22 14:02	08/31/22 11:19	1
Y Carrier	101		40 - 110					08/23/22 14:02	08/31/22 11:19	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.668		0.368	0.372	5.00	0.518	pCi/L		09/15/22 14:56	1

Client Sample ID: FD-01

Lab Sample ID: 680-219893-12

Date Collected: 08/16/22 00:00

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0596	U	0.0631	0.0633	1.00	0.100	pCi/L	08/23/22 13:24	09/14/22 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					08/23/22 13:24	09/14/22 07:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.631		0.298	0.304	1.00	0.399	pCi/L	08/23/22 14:02	08/31/22 11:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					08/23/22 14:02	08/31/22 11:19	1
Y Carrier	101		40 - 110					08/23/22 14:02	08/31/22 11:19	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: FD-01

Lab Sample ID: 680-219893-12

Date Collected: 08/16/22 00:00

Matrix: Water

Date Received: 08/18/22 13:30

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.690		0.305	0.311	5.00	0.399	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWC-21

Lab Sample ID: 680-219893-13

Date Collected: 08/16/22 14:40

Matrix: Water

Date Received: 08/18/22 13:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.0940	0.0962	1.00	0.107	pCi/L	08/23/22 13:24	09/14/22 07:18	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	95.3		40 - 110					08/23/22 13:24	09/14/22 07:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.12		0.350	0.365	1.00	0.402	pCi/L	08/23/22 14:02	08/31/22 11:20	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	95.3		40 - 110					08/23/22 14:02	08/31/22 11:20	1
Y Carrier	101		40 - 110					08/23/22 14:02	08/31/22 11:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.35		0.362	0.377	5.00	0.402	pCi/L		09/15/22 14:56	1

Client Sample ID: WGWC-11

Lab Sample ID: 680-219968-1

Date Collected: 08/16/22 16:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108		0.0647	0.0654	1.00	0.0805	pCi/L	09/02/22 12:34	09/27/22 08:39	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	98.5		40 - 110					09/02/22 12:34	09/27/22 08:39	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-11

Lab Sample ID: 680-219968-1

Date Collected: 08/16/22 16:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.392	U	0.280	0.282	1.00	0.419	pCi/L	09/02/22 12:34	09/15/22 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					09/02/22 12:34	09/15/22 11:48	1
Y Carrier	87.5		40 - 110					09/02/22 12:34	09/15/22 11:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.500		0.287	0.289	5.00	0.419	pCi/L		09/27/22 17:03	1

Client Sample ID: EB-05

Lab Sample ID: 680-219968-2

Date Collected: 08/16/22 15:10

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0122	U	0.0628	0.0628	1.00	0.118	pCi/L	09/02/22 12:34	09/27/22 08:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/27/22 08:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0664	U	0.217	0.217	1.00	0.430	pCi/L	09/02/22 12:34	09/15/22 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/15/22 11:48	1
Y Carrier	87.9		40 - 110					09/02/22 12:34	09/15/22 11:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0543	U	0.226	0.226	5.00	0.430	pCi/L		09/27/22 17:03	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-9

Lab Sample ID: 680-219968-3

Date Collected: 08/17/22 10:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0479	U	0.0646	0.0648	1.00	0.109	pCi/L	09/02/22 12:34	09/27/22 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					09/02/22 12:34	09/27/22 08:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0907	U	0.265	0.265	1.00	0.470	pCi/L	09/02/22 12:34	09/15/22 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					09/02/22 12:34	09/15/22 11:48	1
Y Carrier	87.1		40 - 110					09/02/22 12:34	09/15/22 11:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.139	U	0.273	0.273	5.00	0.470	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-16

Lab Sample ID: 680-219968-4

Date Collected: 08/17/22 11:40

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117		0.0623	0.0632	1.00	0.0716	pCi/L	09/02/22 12:34	09/27/22 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					09/02/22 12:34	09/27/22 08:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.829		0.346	0.354	1.00	0.461	pCi/L	09/02/22 12:34	09/15/22 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					09/02/22 12:34	09/15/22 11:48	1
Y Carrier	88.6		40 - 110					09/02/22 12:34	09/15/22 11:48	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-16

Lab Sample ID: 680-219968-4

Date Collected: 08/17/22 11:40

Matrix: Water

Date Received: 08/20/22 08:00

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.946		0.352	0.360	5.00	0.461	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-15

Lab Sample ID: 680-219968-5

Date Collected: 08/17/22 12:55

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.233		0.0835	0.0861	1.00	0.0761	pCi/L	09/02/22 12:34	09/27/22 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/02/22 12:34	09/27/22 08:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.330	U	0.280	0.282	1.00	0.438	pCi/L	09/02/22 12:34	09/15/22 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/02/22 12:34	09/15/22 11:48	1
Y Carrier	86.4		40 - 110					09/02/22 12:34	09/15/22 11:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.563		0.292	0.295	5.00	0.438	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-25

Lab Sample ID: 680-219968-6

Date Collected: 08/17/22 14:40

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.267		0.0898	0.0929	1.00	0.0776	pCi/L	09/02/22 12:34	09/27/22 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/02/22 12:34	09/27/22 08:42	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-25

Lab Sample ID: 680-219968-6

Date Collected: 08/17/22 14:40

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.496		0.306	0.309	1.00	0.447	pCi/L	09/02/22 12:34	09/15/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/02/22 12:34	09/15/22 11:49	1
Y Carrier	86.4		40 - 110					09/02/22 12:34	09/15/22 11:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.763		0.319	0.323	5.00	0.447	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-23

Lab Sample ID: 680-219968-7

Date Collected: 08/17/22 15:50

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.300		0.100	0.104	1.00	0.0940	pCi/L	09/02/22 12:34	09/27/22 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/02/22 12:34	09/27/22 08:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.676		0.353	0.358	1.00	0.496	pCi/L	09/02/22 12:34	09/15/22 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/02/22 12:34	09/15/22 11:50	1
Y Carrier	86.4		40 - 110					09/02/22 12:34	09/15/22 11:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.976		0.367	0.373	5.00	0.496	pCi/L		09/27/22 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-19

Lab Sample ID: 680-219968-8

Date Collected: 08/17/22 17:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0482	U	0.0568	0.0569	1.00	0.0924	pCi/L	09/02/22 12:34	09/27/22 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					09/02/22 12:34	09/27/22 08:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.107	U	0.260	0.260	1.00	0.458	pCi/L	09/02/22 12:34	09/15/22 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					09/02/22 12:34	09/15/22 11:50	1
Y Carrier	87.5		40 - 110					09/02/22 12:34	09/15/22 11:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.155	U	0.266	0.266	5.00	0.458	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-12

Lab Sample ID: 680-219968-9

Date Collected: 08/18/22 12:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.133		0.0700	0.0711	1.00	0.0830	pCi/L	09/02/22 12:34	09/27/22 08:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					09/02/22 12:34	09/27/22 08:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.146	U	0.250	0.250	1.00	0.429	pCi/L	09/02/22 12:34	09/15/22 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					09/02/22 12:34	09/15/22 11:50	1
Y Carrier	86.7		40 - 110					09/02/22 12:34	09/15/22 11:50	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-12

Lab Sample ID: 680-219968-9

Date Collected: 08/18/22 12:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.279	U	0.260	0.260	5.00	0.429	pCi/L		09/27/22 17:03	1

Client Sample ID: FB-03

Lab Sample ID: 680-219968-10

Date Collected: 08/17/22 16:35

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0810	U	0.0625	0.0629	1.00	0.0897	pCi/L	09/02/22 12:34	09/27/22 08:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/27/22 08:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.266	U	0.269	0.270	1.00	0.433	pCi/L	09/02/22 12:34	09/15/22 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/15/22 11:50	1
Y Carrier	86.0		40 - 110					09/02/22 12:34	09/15/22 11:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.347	U	0.276	0.277	5.00	0.433	pCi/L		09/27/22 17:03	1

Client Sample ID: FD-02

Lab Sample ID: 680-219968-11

Date Collected: 08/17/22 00:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0740	U	0.0556	0.0560	1.00	0.0759	pCi/L	09/02/22 12:34	09/27/22 08:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/02/22 12:34	09/27/22 08:45	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: FD-02

Lab Sample ID: 680-219968-11

Date Collected: 08/17/22 00:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.295	0.296	1.00	0.485	pCi/L	09/02/22 12:34	09/15/22 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/02/22 12:34	09/15/22 11:50	1
Y Carrier	82.6		40 - 110					09/02/22 12:34	09/15/22 11:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.325	U	0.300	0.301	5.00	0.485	pCi/L		09/27/22 17:03	1

Client Sample ID: FB-02

Lab Sample ID: 680-219968-12

Date Collected: 08/16/22 15:30

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0940		0.0620	0.0626	1.00	0.0818	pCi/L	09/02/22 12:34	09/27/22 08:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/27/22 08:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.186	U	0.261	0.262	1.00	0.440	pCi/L	09/02/22 12:34	09/15/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/15/22 11:51	1
Y Carrier	85.6		40 - 110					09/02/22 12:34	09/15/22 11:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.280	U	0.268	0.269	5.00	0.440	pCi/L		09/27/22 17:03	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-8

Lab Sample ID: 680-219968-13

Date Collected: 08/16/22 15:55

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.387		0.109	0.115	1.00	0.0814	pCi/L	09/02/22 12:34	09/27/22 08:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					09/02/22 12:34	09/27/22 08:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.02		0.466	0.502	1.00	0.449	pCi/L	09/02/22 12:34	09/15/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					09/02/22 12:34	09/15/22 11:51	1
Y Carrier	85.6		40 - 110					09/02/22 12:34	09/15/22 11:51	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.40		0.479	0.515	5.00	0.449	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-20

Lab Sample ID: 680-219968-14

Date Collected: 08/18/22 10:15

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219		0.0892	0.0914	1.00	0.0977	pCi/L	09/02/22 12:34	09/27/22 08:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/02/22 12:34	09/27/22 08:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.774		0.348	0.355	1.00	0.469	pCi/L	09/02/22 12:34	09/15/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/02/22 12:34	09/15/22 11:51	1
Y Carrier	87.5		40 - 110					09/02/22 12:34	09/15/22 11:51	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-20

Lab Sample ID: 680-219968-14

Date Collected: 08/18/22 10:15

Matrix: Water

Date Received: 08/20/22 08:00

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.994		0.359	0.367	5.00	0.469	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-13

Lab Sample ID: 680-219968-15

Date Collected: 08/18/22 12:37

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.217		0.0865	0.0887	1.00	0.0877	pCi/L	09/02/22 12:34	09/27/22 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					09/02/22 12:34	09/27/22 08:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.502		0.322	0.325	1.00	0.475	pCi/L	09/02/22 12:34	09/15/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					09/02/22 12:34	09/15/22 11:53	1
Y Carrier	85.2		40 - 110					09/02/22 12:34	09/15/22 11:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.719		0.333	0.337	5.00	0.475	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-24

Lab Sample ID: 680-219968-16

Date Collected: 08/18/22 13:05

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179		0.0759	0.0776	1.00	0.0776	pCi/L	09/02/22 12:34	09/27/22 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					09/02/22 12:34	09/27/22 08:47	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-24

Lab Sample ID: 680-219968-16

Date Collected: 08/18/22 13:05

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.853		0.333	0.342	1.00	0.420	pCi/L	09/02/22 12:34	09/15/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					09/02/22 12:34	09/15/22 11:53	1
Y Carrier	86.0		40 - 110					09/02/22 12:34	09/15/22 11:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.03		0.342	0.351	5.00	0.420	pCi/L		09/27/22 17:03	1

Client Sample ID: FD-03

Lab Sample ID: 680-219968-17

Date Collected: 08/18/22 00:00

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.192		0.0859	0.0876	1.00	0.0977	pCi/L	09/02/22 12:34	09/27/22 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					09/02/22 12:34	09/27/22 08:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.364	U	0.348	0.350	1.00	0.560	pCi/L	09/02/22 12:34	09/15/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					09/02/22 12:34	09/15/22 11:53	1
Y Carrier	84.5		40 - 110					09/02/22 12:34	09/15/22 11:53	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.556	U	0.358	0.361	5.00	0.560	pCi/L		09/27/22 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: EB-06

Lab Sample ID: 680-219968-18

Date Collected: 08/18/22 11:25

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0359	U	0.0612	0.0613	1.00	0.107	pCi/L	09/02/22 12:34	09/27/22 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					09/02/22 12:34	09/27/22 08:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.180	U	0.267	0.267	1.00	0.451	pCi/L	09/02/22 12:34	09/15/22 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					09/02/22 12:34	09/15/22 11:54	1
Y Carrier	86.4		40 - 110					09/02/22 12:34	09/15/22 11:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.216	U	0.274	0.274	5.00	0.451	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-10

Lab Sample ID: 680-219968-19

Date Collected: 08/19/22 10:10

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178		0.116	0.117	1.00	0.162	pCi/L	09/02/22 12:34	09/27/22 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.7		40 - 110					09/02/22 12:34	09/27/22 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.318	U	0.524	0.525	1.00	0.891	pCi/L	09/02/22 12:34	09/15/22 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.7		40 - 110					09/02/22 12:34	09/15/22 11:54	1
Y Carrier	87.1		40 - 110					09/02/22 12:34	09/15/22 11:54	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-10

Lab Sample ID: 680-219968-19

Date Collected: 08/19/22 10:10

Matrix: Water

Date Received: 08/20/22 08:00

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.497	U	0.537	0.538	5.00	0.891	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-14A

Lab Sample ID: 680-219968-20

Date Collected: 08/19/22 11:35

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.477		0.125	0.132	1.00	0.111	pCi/L	09/02/22 12:34	09/27/22 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/27/22 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.455		0.290	0.293	1.00	0.425	pCi/L	09/02/22 12:34	09/15/22 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					09/02/22 12:34	09/15/22 11:54	1
Y Carrier	89.3		40 - 110					09/02/22 12:34	09/15/22 11:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.932		0.316	0.321	5.00	0.425	pCi/L		09/27/22 17:03	1

Client Sample ID: WGWC-22

Lab Sample ID: 680-219968-21

Date Collected: 08/19/22 12:21

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.65		0.213	0.260	1.00	0.0982	pCi/L	09/02/22 13:16	09/27/22 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					09/02/22 13:16	09/27/22 13:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-22

Lab Sample ID: 680-219968-21

Date Collected: 08/19/22 12:21

Matrix: Water

Date Received: 08/20/22 08:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.42	U G	1.43	1.44	1.00	2.31	pCi/L	09/22/22 15:38	09/28/22 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/22/22 15:38	09/28/22 12:37	1
Y Carrier	86.7		40 - 110					09/22/22 15:38	09/28/22 12:37	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.07		1.45	1.46	5.00	2.31	pCi/L		09/28/22 22:24	1



Tracer/Carrier Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)			
Lab Sample ID	Client Sample ID	Ba (40-110)			
160-46717-A-1-B DU	Duplicate	98.8			
160-172278-D-1-A DU	Duplicate	98.3			
680-219893-1	WGWA-1	101			
680-219893-2	WGWA-2	96.0			
680-219893-3	FB-01	96.5			
680-219893-4	WGWA-7	100			
680-219893-5	WGWA-18	89.9			
680-219893-6	WGWA-5	96.8			
680-219893-7	EB-04	96.3			
680-219893-8	WGWA-6	98.3			
680-219893-9	WGWA-4	97.0			
680-219893-10	WGWA-3	101			
680-219893-11	WGWC-17	98.5			
680-219893-12	FD-01	92.8			
680-219893-13	WGWC-21	95.3			
680-219968-1	WGWC-11	98.5			
680-219968-2	EB-05	101			
680-219968-3	WGWC-9	99.5			
680-219968-4	WGWC-16	106			
680-219968-5	WGWC-15	103			
680-219968-6	WGWC-25	102			
680-219968-7	WGWC-23	94.3			
680-219968-8	WGWC-19	95.8			
680-219968-9	WGWC-12	100			
680-219968-10	FB-03	101			
680-219968-11	FD-02	103			
680-219968-12	FB-02	101			
680-219968-13	WGWC-8	95.6			
680-219968-14	WGWC-20	102			
680-219968-15	WGWC-13	96.3			
680-219968-16	WGWC-24	107			
680-219968-17	FD-03	97.5			
680-219968-18	EB-06	95.3			
680-219968-19	WGWC-10	63.7			
680-219968-20	WGWC-14A	101			
680-219968-21	WGWC-22	95.3			
LCS 160-579082/2-A	Lab Control Sample	95.1			
LCS 160-580457/2-A	Lab Control Sample	104			
LCS 160-580464/2-A	Lab Control Sample	60.7			
LCSD 160-580457/3-A	Lab Control Sample Dup	103			
MB 160-579082/1-A	Method Blank	96.8			
MB 160-580457/1-A	Method Blank	104			
MB 160-580464/1-A	Method Blank	102			

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
160-46717-A-1-D DU	Duplicate	98.8	101
500-221192-G-5-B DU	Duplicate	96.1	86.0
680-219893-1	WGWA-1	101	97.2
680-219893-2	WGWA-2	96.0	99.4
680-219893-3	FB-01	96.5	99.1
680-219893-4	WGWA-7	100	99.8
680-219893-5	WGWA-18	89.9	98.7
680-219893-6	WGWA-5	96.8	97.9
680-219893-7	EB-04	96.3	98.7
680-219893-8	WGWA-6	98.3	99.1
680-219893-9	WGWA-4	97.0	100
680-219893-10	WGWA-3	101	99.4
680-219893-11	WGWC-17	98.5	101
680-219893-12	FD-01	92.8	101
680-219893-13	WGWC-21	95.3	101
680-219968-1	WGWC-11	98.5	87.5
680-219968-2	EB-05	101	87.9
680-219968-3	WGWC-9	99.5	87.1
680-219968-4	WGWC-16	106	88.6
680-219968-5	WGWC-15	103	86.4
680-219968-6	WGWC-25	102	86.4
680-219968-7	WGWC-23	94.3	86.4
680-219968-8	WGWC-19	95.8	87.5
680-219968-9	WGWC-12	100	86.7
680-219968-10	FB-03	101	86.0
680-219968-11	FD-02	103	82.6
680-219968-12	FB-02	101	85.6
680-219968-13	WGWC-8	95.6	85.6
680-219968-14	WGWC-20	102	87.5
680-219968-15	WGWC-13	96.3	85.2
680-219968-16	WGWC-24	107	86.0
680-219968-17	FD-03	97.5	84.5
680-219968-18	EB-06	95.3	86.4
680-219968-19	WGWC-10	63.7	87.1
680-219968-20	WGWC-14A	101	89.3
680-219968-21	WGWC-22	94.3	86.7
LCS 160-579086/2-A	Lab Control Sample	95.1	98.7
LCS 160-580463/2-A	Lab Control Sample	104	86.7
LCS 160-583204/2-A	Lab Control Sample	96.1	87.1
LCSD 160-580463/3-A	Lab Control Sample Dup	103	86.4
MB 160-579086/1-A	Method Blank	96.8	87.1
MB 160-580463/1-A	Method Blank	104	83.0
MB 160-583204/1-A	Method Blank	95.3	88.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-579082/1-A
Matrix: Water
Analysis Batch: 582046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579082

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01699	U	0.0369	0.0370	1.00	0.0947	pCi/L	08/23/22 13:24	09/14/22 07:13	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110				08/23/22 13:24		09/14/22 07:13	1

Lab Sample ID: LCS 160-579082/2-A
Matrix: Water
Analysis Batch: 582046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579082

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	10.47	1.08	1.00	0.0809	pCi/L	92	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	95.1		40 - 110							

Lab Sample ID: MB 160-580457/1-A
Matrix: Water
Analysis Batch: 583742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580457

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.004971	U	0.0431	0.0431	1.00	0.0871	pCi/L	09/02/22 12:34	09/27/22 11:34	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	104		40 - 110				09/02/22 12:34		09/27/22 11:34	1

Lab Sample ID: LCS 160-580457/2-A
Matrix: Water
Analysis Batch: 583742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580457

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	9.353	0.974	1.00	0.0957	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	104		40 - 110							

Lab Sample ID: LCSD 160-580457/3-A
Matrix: Water
Analysis Batch: 583742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 580457

Analyte	LCSD		Spike	LCSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	%Yield	LCSD Qualifier	Added	Result	Uncert. (2σ+/-)							
Radium-226			11.3	9.248	0.963	1.00	0.0768	pCi/L	82	75 - 125	0.05	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-580457/3-A
Matrix: Water
Analysis Batch: 583742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 580457

	<i>LCS</i>	<i>D</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	103		40 - 110

Lab Sample ID: MB 160-580464/1-A
Matrix: Water
Analysis Batch: 583744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580464

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03174	U	0.0606	0.0607	1.00	0.107	pCi/L	09/02/22 13:16	09/27/22 08:53	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	102		40 - 110					09/02/22 13:16	09/27/22 08:53	1

Lab Sample ID: LCS 160-580464/2-A
Matrix: Water
Analysis Batch: 583744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580464

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.474		1.05	1.00	0.161	pCi/L	84	75 - 125
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>						
Ba Carrier	60.7		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-579086/1-A
Matrix: Water
Analysis Batch: 580118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579086

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4927		0.298	0.301	1.00	0.429	pCi/L	08/23/22 14:02	08/31/22 11:10	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	96.8		40 - 110					08/23/22 14:02	08/31/22 11:10	1
Y Carrier	87.1		40 - 110					08/23/22 14:02	08/31/22 11:10	1

Lab Sample ID: LCS 160-579086/2-A
Matrix: Water
Analysis Batch: 580176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579086

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.32	10.65		1.32	1.00	0.416	pCi/L	128	75 - 125

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-579086/2-A
Matrix: Water
Analysis Batch: 580176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579086

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	95.1		40 - 110
Y Carrier	98.7		40 - 110

Lab Sample ID: MB 160-580463/1-A
Matrix: Water
Analysis Batch: 582367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580463

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	-0.07135	U	0.227	0.228	1.00	0.449	pCi/L	09/02/22 12:34	09/15/22 11:43		1	

Carrier	MB		Limits	Prepared		Analyzed		Dil Fac
	%Yield	Qualifier						
Ba Carrier	104		40 - 110	09/02/22 12:34		09/15/22 11:43		1
Y Carrier	83.0		40 - 110	09/02/22 12:34		09/15/22 11:43		1

Lab Sample ID: LCS 160-580463/2-A
Matrix: Water
Analysis Batch: 582367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580463

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									Radium-228	8.28

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	104		40 - 110
Y Carrier	86.7		40 - 110

Lab Sample ID: LCSD 160-580463/3-A
Matrix: Water
Analysis Batch: 582217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 580463

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	Limit
									Radium-228	8.28	9.060	

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	103		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: MB 160-583204/1-A
Matrix: Water
Analysis Batch: 583797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583204

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	-0.2114	U	0.231	0.231	1.00	0.494	pCi/L	09/22/22 15:38	09/28/22 12:32		1	

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-583204/1-A
Matrix: Water
Analysis Batch: 583797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583204

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	95.3		40 - 110
Y Carrier	88.2		40 - 110

Prepared	Analyzed	Dil Fac
09/22/22 15:38	09/28/22 12:32	1
09/22/22 15:38	09/28/22 12:32	1

Lab Sample ID: LCS 160-583204/2-A
Matrix: Water
Analysis Batch: 583797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583204

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	8.24	7.931		1.11	1.00	0.433	pCi/L	96	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	96.1		40 - 110
Y Carrier	87.1		40 - 110

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Rad

Prep Batch: 579082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total/NA	Water	PrecSep-21	
680-219893-2	WGWA-2	Total/NA	Water	PrecSep-21	
680-219893-3	FB-01	Total/NA	Water	PrecSep-21	
680-219893-4	WGWA-7	Total/NA	Water	PrecSep-21	
680-219893-5	WGWA-18	Total/NA	Water	PrecSep-21	
680-219893-6	WGWA-5	Total/NA	Water	PrecSep-21	
680-219893-7	EB-04	Total/NA	Water	PrecSep-21	
680-219893-8	WGWA-6	Total/NA	Water	PrecSep-21	
680-219893-9	WGWA-4	Total/NA	Water	PrecSep-21	
680-219893-10	WGWA-3	Total/NA	Water	PrecSep-21	
680-219893-11	WGWC-17	Total/NA	Water	PrecSep-21	
680-219893-12	FD-01	Total/NA	Water	PrecSep-21	
680-219893-13	WGWC-21	Total/NA	Water	PrecSep-21	
MB 160-579082/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-579082/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 579086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219893-1	WGWA-1	Total/NA	Water	PrecSep_0	
680-219893-2	WGWA-2	Total/NA	Water	PrecSep_0	
680-219893-3	FB-01	Total/NA	Water	PrecSep_0	
680-219893-4	WGWA-7	Total/NA	Water	PrecSep_0	
680-219893-5	WGWA-18	Total/NA	Water	PrecSep_0	
680-219893-6	WGWA-5	Total/NA	Water	PrecSep_0	
680-219893-7	EB-04	Total/NA	Water	PrecSep_0	
680-219893-8	WGWA-6	Total/NA	Water	PrecSep_0	
680-219893-9	WGWA-4	Total/NA	Water	PrecSep_0	
680-219893-10	WGWA-3	Total/NA	Water	PrecSep_0	
680-219893-11	WGWC-17	Total/NA	Water	PrecSep_0	
680-219893-12	FD-01	Total/NA	Water	PrecSep_0	
680-219893-13	WGWC-21	Total/NA	Water	PrecSep_0	
MB 160-579086/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-579086/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 580457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total/NA	Water	PrecSep-21	
680-219968-2	EB-05	Total/NA	Water	PrecSep-21	
680-219968-3	WGWC-9	Total/NA	Water	PrecSep-21	
680-219968-4	WGWC-16	Total/NA	Water	PrecSep-21	
680-219968-5	WGWC-15	Total/NA	Water	PrecSep-21	
680-219968-6	WGWC-25	Total/NA	Water	PrecSep-21	
680-219968-7	WGWC-23	Total/NA	Water	PrecSep-21	
680-219968-8	WGWC-19	Total/NA	Water	PrecSep-21	
680-219968-9	WGWC-12	Total/NA	Water	PrecSep-21	
680-219968-10	FB-03	Total/NA	Water	PrecSep-21	
680-219968-11	FD-02	Total/NA	Water	PrecSep-21	
680-219968-12	FB-02	Total/NA	Water	PrecSep-21	
680-219968-13	WGWC-8	Total/NA	Water	PrecSep-21	
680-219968-14	WGWC-20	Total/NA	Water	PrecSep-21	
680-219968-15	WGWC-13	Total/NA	Water	PrecSep-21	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Rad (Continued)

Prep Batch: 580457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-16	WGWC-24	Total/NA	Water	PrecSep-21	
680-219968-17	FD-03	Total/NA	Water	PrecSep-21	
680-219968-18	EB-06	Total/NA	Water	PrecSep-21	
680-219968-19	WGWC-10	Total/NA	Water	PrecSep-21	
680-219968-20	WGWC-14A	Total/NA	Water	PrecSep-21	
MB 160-580457/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-580457/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-580457/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 580463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-1	WGWC-11	Total/NA	Water	PrecSep_0	
680-219968-2	EB-05	Total/NA	Water	PrecSep_0	
680-219968-3	WGWC-9	Total/NA	Water	PrecSep_0	
680-219968-4	WGWC-16	Total/NA	Water	PrecSep_0	
680-219968-5	WGWC-15	Total/NA	Water	PrecSep_0	
680-219968-6	WGWC-25	Total/NA	Water	PrecSep_0	
680-219968-7	WGWC-23	Total/NA	Water	PrecSep_0	
680-219968-8	WGWC-19	Total/NA	Water	PrecSep_0	
680-219968-9	WGWC-12	Total/NA	Water	PrecSep_0	
680-219968-10	FB-03	Total/NA	Water	PrecSep_0	
680-219968-11	FD-02	Total/NA	Water	PrecSep_0	
680-219968-12	FB-02	Total/NA	Water	PrecSep_0	
680-219968-13	WGWC-8	Total/NA	Water	PrecSep_0	
680-219968-14	WGWC-20	Total/NA	Water	PrecSep_0	
680-219968-15	WGWC-13	Total/NA	Water	PrecSep_0	
680-219968-16	WGWC-24	Total/NA	Water	PrecSep_0	
680-219968-17	FD-03	Total/NA	Water	PrecSep_0	
680-219968-18	EB-06	Total/NA	Water	PrecSep_0	
680-219968-19	WGWC-10	Total/NA	Water	PrecSep_0	
680-219968-20	WGWC-14A	Total/NA	Water	PrecSep_0	
MB 160-580463/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-580463/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-580463/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 580464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-21	WGWC-22	Total/NA	Water	PrecSep-21	
MB 160-580464/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-580464/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 583204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-219968-21	WGWC-22	Total/NA	Water	PrecSep_0	
MB 160-583204/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-583204/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWA-1

Lab Sample ID: 680-219893-1

Date Collected: 08/15/22 13:25

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1006.90 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:13	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1006.90 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580176	08/31/22 11:14	SCB	EET SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 680-219893-2

Date Collected: 08/15/22 14:50

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.47 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:13	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.47 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580176	08/31/22 11:14	SCB	EET SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 680-219893-3

Date Collected: 08/15/22 15:10

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.38 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:13	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.38 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:17	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 680-219893-4

Date Collected: 08/16/22 11:20

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1007.15 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:14	FLC	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWA-7

Lab Sample ID: 680-219893-4

Date Collected: 08/16/22 11:20

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1007.15 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:17	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-18

Lab Sample ID: 680-219893-5

Date Collected: 08/16/22 14:05

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.12 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:15	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1004.12 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:18	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 680-219893-6

Date Collected: 08/15/22 13:51

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			501.83 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:15	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			501.83 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:18	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-04

Lab Sample ID: 680-219893-7

Date Collected: 08/15/22 14:20

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1008.65 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1008.65 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:18	SCB	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: EB-04
Date Collected: 08/15/22 14:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL

Client Sample ID: WGWA-6
Date Collected: 08/15/22 15:00
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.69 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.69 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:18	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4
Date Collected: 08/16/22 10:20
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1006.69 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1006.69 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:18	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3
Date Collected: 08/16/22 11:15
Date Received: 08/18/22 13:30

Lab Sample ID: 680-219893-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1008.86 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1008.86 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:19	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-17

Lab Sample ID: 680-219893-11

Date Collected: 08/16/22 12:21

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			752.65 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582046	09/14/22 07:16	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			752.65 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:19	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FD-01

Lab Sample ID: 680-219893-12

Date Collected: 08/16/22 00:00

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.88 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582047	09/14/22 07:18	CLP	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1002.88 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580116	08/31/22 11:19	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Lab Sample ID: 680-219893-13

Date Collected: 08/16/22 14:40

Matrix: Water

Date Received: 08/18/22 13:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.92 mL	1.0 g	579082	08/23/22 13:24	BMP	EET SL
Total/NA	Analysis	9315		1			582047	09/14/22 07:18	CLP	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1004.92 mL	1.0 g	579086	08/23/22 14:02	BMP	EET SL
Total/NA	Analysis	9320		1			580117	08/31/22 11:20	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			582305	09/15/22 14:56	CLP	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 680-219968-1

Date Collected: 08/16/22 16:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.27 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:39	FLC	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-11

Lab Sample ID: 680-219968-1

Date Collected: 08/16/22 16:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1004.27 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:48	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-05

Lab Sample ID: 680-219968-2

Date Collected: 08/16/22 15:10

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.10 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:39	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.10 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:48	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 680-219968-3

Date Collected: 08/17/22 10:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.59 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:40	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1004.59 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:48	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 680-219968-4

Date Collected: 08/17/22 11:40

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1008.29 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:42	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1008.29 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:48	FLC	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-16

Lab Sample ID: 680-219968-4

Date Collected: 08/17/22 11:40

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL

Client Sample ID: WGWC-15

Lab Sample ID: 680-219968-5

Date Collected: 08/17/22 12:55

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.89 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:42	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.89 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:48	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 680-219968-6

Date Collected: 08/17/22 14:40

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.85 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:42	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.85 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:49	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 680-219968-7

Date Collected: 08/17/22 15:50

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1005.11 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:42	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1005.11 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-19

Lab Sample ID: 680-219968-8

Date Collected: 08/17/22 17:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.32 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:42	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1004.32 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 680-219968-9

Date Collected: 08/18/22 12:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.39 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:45	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.39 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-03

Lab Sample ID: 680-219968-10

Date Collected: 08/17/22 16:35

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.51 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:45	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.51 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FD-02

Lab Sample ID: 680-219968-11

Date Collected: 08/17/22 00:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1005.70 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:45	FLC	EET SL
Instrument ID: GFPCRED										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: FD-02
Date Collected: 08/17/22 00:00
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1005.70 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02
Date Collected: 08/16/22 15:30
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1007.57 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:46	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1007.57 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8
Date Collected: 08/16/22 15:55
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.49 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:46	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.49 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-20
Date Collected: 08/18/22 10:15
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:46	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.07 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582217	09/15/22 11:51	FLC	EET SL
Instrument ID: GFPCRED										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-20

Lab Sample ID: 680-219968-14

Date Collected: 08/18/22 10:15

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL

Client Sample ID: WGWC-13

Lab Sample ID: 680-219968-15

Date Collected: 08/18/22 12:37

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1007.02 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:47	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1007.02 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582285	09/15/22 11:53	JCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 680-219968-16

Date Collected: 08/18/22 13:05

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.23 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 08:47	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.23 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582285	09/15/22 11:53	JCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FD-03

Lab Sample ID: 680-219968-17

Date Collected: 08/18/22 00:00

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.03 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583744	09/27/22 08:49	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.03 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582285	09/15/22 11:53	JCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: EB-06
Date Collected: 08/18/22 11:25
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.97 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583744	09/27/22 08:49	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1004.97 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582285	09/15/22 11:54	JCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10
Date Collected: 08/19/22 10:10
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.00 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583744	09/27/22 08:50	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1002.00 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582285	09/15/22 11:54	JCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A
Date Collected: 08/19/22 11:35
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.07 mL	1.0 g	580457	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9315		1			583744	09/27/22 08:50	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.07 mL	1.0 g	580463	09/02/22 12:34	MLK	EET SL
Total/NA	Analysis	9320		1			582285	09/15/22 11:54	JCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			583768	09/27/22 17:03	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-22
Date Collected: 08/19/22 12:21
Date Received: 08/20/22 08:00

Lab Sample ID: 680-219968-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1005.89 mL	1.0 g	580464	09/02/22 13:16	MLK	EET SL
Total/NA	Analysis	9315		1			583742	09/27/22 13:25	FLC	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Client Sample ID: WGWC-22

Lab Sample ID: 680-219968-21

Date Collected: 08/19/22 12:21

Matrix: Water

Date Received: 08/20/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			230.51 mL	1.0 g	583204	09/22/22 15:38	ASG	EET SL
Total/NA	Analysis	9320		1			583941	09/28/22 12:37	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			583962	09/28/22 22:24	EMH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-22 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Southern Company
Project/Site: Plant Wansley - Ash Pond

Job ID: 680-219893-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Client Information Client Contact: <u>ASchmickler</u> SCS Contacts: <u>770-594-5998</u> Company: <u>GA Power</u>		Lab PM: <u>Fuller David</u> E-Mail: <u>David.Fuller@et.eurofins.us.com</u>		Camer Tracking No(s): COC No: <u>1 of 2</u> Page: <u>1 of 2</u> Job #:	
Due Date Requested: TAT Requested (days):		Analysis Requested			
Lab Project #: <u>68027766</u> PO #:		App III Metals: B, Ca App IV Metals (EPA 8020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9316/9320)			
Project Name: <u>CCP - Plant Wansley Ash Pcmd</u> Site:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)			
Sample Identification <u>WGINA-1</u> <u>WGINA-2</u> <u>FB-01</u> <u>WGINA-7</u> <u>WGINA-18</u>		Sample Date (mm/dd/yy) <u>08/15/22</u> <u>08/15/22</u> <u>08/15/22</u> <u>08/16/22</u> <u>08/16/22</u>		Sample Time (hh:mm) <u>1325</u> <u>1450</u> <u>1510</u> <u>1120</u> <u>1405</u>	
Sample Type (C=Comp, G=grab) Preservation Code:		Total Number of containers pH= <u>5.28</u> pH= <u>6.04</u> pH= <u>NA</u> pH= <u>5.32</u> pH= <u>6.19</u> pH= <u> </u> pH= <u> </u> pH= <u> </u> pH= <u> </u> pH= <u> </u>			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poiscn B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/Note: Full APP III and APP IV			
Deliverable Requested 1, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by		Method of Shipment:			
Relinquished by: <u>Taylor Galt</u>		Received by: <u>Taylor Galt</u>			
Relinquished by: <u>Taylor Galt</u>		Received by: <u>ACC</u>			
Relinquished by: <u>Taylor Galt</u>		Received by: <u>ACC</u>			
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <u>4.2/4.1</u> <u>2.7/2.6</u> <u>23/22</u> <u>8-18-22</u> <u>1330</u>			

REC'D
 8-18-22 1330
 Ver 01/16/2019



Chain of Custody Record

244-ATLANTA

ment Testing
 Air erica

Client Information		Lab PII:		Carrier Tracking No(s)		COC No:							
Client Contact: SCS Contacts		Fuller David				Page: 2 of 2							
Company: GA Power		E-Mail: david.fuller@eurofins.com				Job #:							
Due Date Requested:													
TAT Requested (days):													
Lab Project #: 68027766													
PO #:													
Project #:													
SSOW#:													
Address: 241 Ralph McGill Blvd SE													
City: Atlanta													
State, Zip: GA, 30308													
Phone: 404-506-7116(Tel)													
Email: SCS Contacts / Geosyntec Contacts													
Project Name: CER- Plant Wansley Ash Pond													
Site:													
Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hh:mm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WC=quality control)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals B, Ca	App IV Metals (EPA 6020/470)	Sp, A, B, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 & 228 (SW-846 9316/9320)	Analysis Requested	Special Instructions/Note:
WGWA-5	08/15/22	1350	G	WG	WG	N	N	✓	✓	✓	✓		Full APP III and APP IV
EB-01	08/15/22	1420	G	WG	WG	N	N	✓	✓	✓	✓		pH= 6.57
WGWA-6	08/15/22	1500	G	WG	WG	N	N	✓	✓	✓	✓		pH= N/A
WGWA-4	08/16/22	1020	G	WG	WG	N	N	✓	✓	✓	✓		pH= 7.76
WGWA-3	08/16/22	1115	G	WG	WG	N	N	✓	✓	✓	✓		pH= 6.92
WGWC-17	08/16/22	1221	G	WG	WG	N	N	✓	✓	✓	✓		pH= 5.46
FD-01	08/16/22	1221	G	WG	WG	N	N	✓	✓	✓	✓		pH= 6.02
WGWC-21	08/16/22	1440	G	WG	WG	N	N	✓	✓	✓	✓		pH= N/A
			G			N	N	✓	✓	✓	✓		pH= 6.72
			G			N	N	✓	✓	✓	✓		pH=
			G			N	N	✓	✓	✓	✓		pH=
			G			N	N	✓	✓	✓	✓		pH=

Possible Hazard Identification
 Non-Hazardic Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by _____ Date: _____

Relinquished by _____ Date/Time: 8/16/22 1500 Company: ACC

Relinquished by _____ Date/Time: 8-17-22 0845 Company: ACC

Relinquished by _____ Date/Time: 8/17/22 11:00 Company: ACC

Custody Seals Intact Yes No **Custody Seal No** _____

Relinquished by _____ Date/Time: 8/16/22 Company: ACC

Relinquished by _____ Date/Time: 8/17/22 0845 Company: ACC

Relinquished by _____ Date/Time: 8/17/22 11:00 Company: Eurofins

Relinquished by _____ Date/Time: 8-18-22 1330 Company: Eurofins

Special Instructions/QC Requirements
 Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment _____

Ver: 01/16/2019



Chain of Custody Record

Client Information Client Contact: GA Power SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts / Geosyntec Contacts Project Name: CCR - Plant Wansley Ash Pond Site:		Sampler: A Schwittker Lab PM: Fuller David Phone: 770 5945998 E-Mail: david.fuller@et.eurofins.com		Carrier Tracking No(s): 244-ATLANTA COC No: 1 of 3 Job #:	
Due Date Requested TAT Requested (days) Lab Project #: 68027766 PO #: Project #: SSOW#:		Analysis Requested App III Metals B, Ca App IV Metals (EPA 6020/470) Sp, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mn, Se, Tl Radium 226 & 228 (SW-846 9316/9320) Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)			
Sample Identification WGW C-11 FB-05 WGW C-9 WGW C-16 WGW C-15 WGW C-25 WGW C-23 WGW C-19 WGW C-12 FB-03 FD-02		Sample Date (mm/dd/yyyy) 08/16/22 08/16/22 08/17/22 08/17/22 08/17/22 08/17/22 08/17/22 08/18/22 08/17/22 08/17/22		Sample Time (hh:mm) 1600 1510 1800 1140 1255 1440 1550 1700 1200 1635 -	
Sample Type (C=Comp, G=grab) Matrix (if ground water, WQ=water, WQ=quality control) Preservation Code G WQ G WQ G WQ G WQ G WQ G WQ G WQ G WQ		App III Metals B, Ca App IV Metals (EPA 6020/470) Sp, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mn, Se, Tl Radium 226 & 228 (SW-846 9316/9320) Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)			
Total Number of Containers pH= 5.56 pH= NA pH= 5.80 pH= 5.24 pH= 7.54 pH= 5.28 pH= 5.64 pH= 6.60 pH= 6.52 pH= NA pH= NA		Special Instructions/Note: Full APP III and APP IV TA			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements			
Empty Kit Relinquished by Relinquished by Relinquished by Relinquished by		Method of Shipment Date Received by Received by Received by			
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks: 0.5/0.2 0.5/0.4 3.1/3.0 1.5/1.4 3.2/3.4			



Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts / Geosyntec Contacts Project Name: CCP Plant Wansley Ash Pond Site:		Sampler: J. Boyd Lab PM: Fuller, David Phone: 770-544-5448 E-Mail: david.fuller@et.eurofins.com		Carrier Tracking No(s) COC No: 2 of 2 Page: 2 of 2 Job #:																	
Due Date Requested: TAT Requested (days): Lab Project #: 68027766 PO #: Project #: SSOW#:		Analysis Requested																			
Sample Identification FB-02 FB-02 W6WC-8 W6WC-20 W6WC-13 W6WC-24 FD-03 EB-06 W6WC-10 W6WC-14A W6WC-22		Sample Date (mm/dd/yy) 08/16/22 08/16/22 08/16/22 08/18/22 08/18/22 08/18/22 08/18/22 08/19/22 08/19/22 08/19/22		Sample Time (hhmm) 1530 1530 1555 1015 1237 1305 / 1125 1010 1135 1221		Sample Type (C=Comp, G=grab) G G G G G G G G G G G		Preservation Code WQ WQ W6 W6 W6 W6 W6 WQ W6 W6 W6 W6		Matrix (W=ground water, WS=surface water, WQ=quality control) WQ WQ W6 W6 W6 W6 W6 WQ W6 W6 W6		App III Metals B, Ca App IV Metals (EPA 6020/740) Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9316/9320)		Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)		Total Number of Containers pH= 6 pH= 6 pH= 6 pH= 6 pH= 6 pH= 6 pH= 6 pH= 6 pH= 6 pH= 6 pH= 6		Preservation Codes A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other M - Hexane N - None O - AsN ₂ O ₂ P - Na2CO3 Q - Na2SO3 R - Na2S2O8 S - H2SO4 T - TSP Didecylhydrate U - Acetone V - MCA W - pH 4 Z - other (specify)		Special Instructions/Note: Full APP III and APP IV	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested I, II, III, IV Other (specify)		Special Instructions/QC Requirements																			
Empty Kit Relinquished by:		Method of Shipment:																			
Relinquished by:		Date: 8/19/22 1455		Received by:																	
Relinquished by:		Date: 8/19/22 1455		Received by:																	
Relinquished by:		Date: 8/19/22 1455		Received by:																	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:																	



PA-US
PTT
15238

AGCA

416 3994

SATURDAY 12:00P
PRIORITY OVERNIGHT



680-219893 Waybill



J22/202203282801 UV

519 CFE #1

PO: YES
(412) 963-7068
REF: 8680-138483
PITTSBURGH PA 15238

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK

SAVANNAH, GA 31404
UNITED STATES US
SHIPPING/TESTAMERICA
5102 LA ROCHE AVE

SHIP DATE: 19AUG22
ACTWGT: 5.00 LB MAN
CAD: 0801261/CAFE3616
BILL SENDER

ORIGIN ID: SAVA (912) 354-7858

FedEx Saturday

151966 10/04 MWI

aturday Delivery

SDR



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TestAmerica

THE LEADER IN **RT 98** **1** **A** **ING**
FZ **10:30** **4372**
08.24

PC 159469-434 NTW EXP 01/23

ORIGIN ID:SAVA (912) 354-7858
 SHIPPING
 EUROFINS/TESTAMERICA
 5102 LA ROUCHE AVE

SHIP DATE: 23AUG22
 ACTWT: 25.00 LB MAN
 CAD: 0801261/CAFE3616

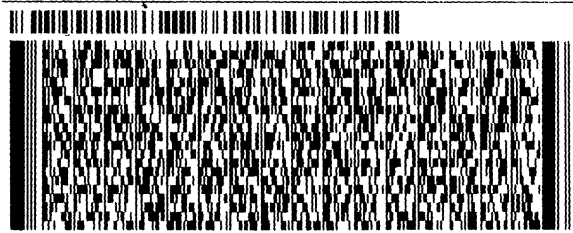
SAVANNAH, GA 31404
 UNITED STATES US

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058 REF: S680-138592
 PO: YES

434/434
 577C2-FR8/22



680-219968 Waybill

TRK# 1328 9416 4372
 0201

WED - 24 AUG 10:30A
PRIORITY OVERNIGHT

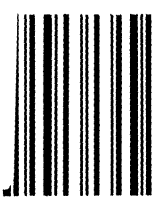
XN AGCA

15238
 PA-US **PIT**

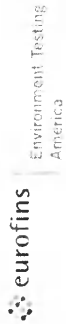
Uncorrected temp 19.1 °C
 Thermometer ID 8

CF -0.7 Initials OC

PT-WI-SR-001 effective 11/8/18 **NO ICE**



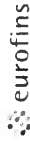
Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Fuller, David	Carrier Tracking No(s): 680-705454 1
Client Contact Shipping/Receiving		E-Mail: David Fuller@et.eurofins.com	Page: Page 1 of 2
Company TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 680-219893-2
Address: 13715 Rider Trail North		Accreditations Required (See note)	Preservation Codes:
City: Earth City		Analysis Requested	M - Hexane
State, Zip: MO, 63045			N - None
Phone: 314-298-8566(Tel) 314-298-8757(Fax)			O - AshNaO2
Email:			P - Na2O4S
Project #: 68027766			Q - Na2SO3
Site: Plant Wansley - Ash Pond			R - Na2SO3
			S - H2SO4
			T - TSP Dodecahydrate
			U - Acetone
			V - MCAA
			W - pH 4-5
			Y - Trizma
			L - EDA
			Other:
			Special Instructions/Note:
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	Total Number of Containers
WGWA-1 (680-219893-1)	8/15/22	X	2
WGWA-2 (680-219893-2)	8/15/22	X	2
FB-01 (680-219893-3)	8/15/22	X	2
WGWA-7 (680-219893-4)	8/16/22	X	2
WGWA-18 (680-219893-5)	8/16/22	X	2
WGWA-5 (680-219893-6)	8/15/22	X	2
EB-04 (680-219893-7)	8/15/22	X	2
WGWA-6 (680-219893-8)	8/15/22	X	2
WGWA-4 (680-219893-9)	8/16/22	X	2
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>			
Possible Hazard Identification			
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Special Instructions/QC Requirements:			
Primary Deliverable Rank: 2		Method of Shipment:	
Relinquished by	Date/Time	Received by	Date/Time
Relinquished by	8/19 8:17C	FED EX	
Relinquished by		Received by	8/22 2022 08:45
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Fuller, David		Lab PM: Fuller, David		Carrier Tracking No(s): 680-705454-2		COC No: 680-705454-2	
Client Contact: Fuller, David		Phone: [Redacted]		E-Mail: [Redacted]		State of Origin: Georgia		Page: Page 2 of 2	
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045		314-298-8566(Tel) 314-298-8757(Fax)		Project # 68027766		Job #: 680-219893-2	
Due Date Requested: 8/28/2022		TAT Requested (days):		PO #		WO #		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - ASNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify) Other:	
Analysis Requested									
Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		930_Ra228/PreSep_0 Radium 228		935_Ra226/PreSep_21 Radium 226		Radium-228	
Sample ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	
WGWA-3 (680-219893-10)		8/16/22		11:15 Eastern		Water		Water	
WGPC-17 (680-219893-11)		8/16/22		12:21 Eastern		Water		Water	
FD-01 (680-219893-12)		8/16/22		Eastern		Water		Water	
WGPC-21 (680-219893-13)		8/16/22		14:40 Eastern		Water		Water	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>									
<p>Possible Hazard Identification <input type="checkbox"/> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date/Time: 8/19 7:30 Relinquished by: FED EX Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks: _____</p>									
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab _____ Archive For _____ Months Special Instructions/QC Requirements: _____ Received by: FED EX Date/Time: _____ Received by: <i>[Signature]</i> Date/Time: AUG 22 2022 0845 Company: EATSL Received by: _____ Date/Time: _____ Company: _____</p>									



Chain of Custody Record

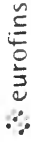


Client Information (Sub Contract Lab)		Sampler Fuller, David	Carrier Tracking No(s) 680-705927-1
Client Contact Shipping/Receiving		E-Mail David.Fuller@et.eurofins.com	Page Page 1 of 4
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note)	Job # 680-219968-2
Address 13715 Rider Trail North,		Preservation Codes:	
City Earth City	Due Date Requested: 10/3/2022	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
State, Zip MO, 63045	TAT Requested (days):	A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone 314-298-8566(Tel) 314-298-8757(Fax)	PO #	Total Number of Containers	
Email	WO #		
Project Name Plant Wansley Ash Pond	Project # 68027766		
Site	SSOW#		
Sample Identification - Client ID (Lab ID)			
WGWC-11 (680-219968-1)	Sample Date 8/16/22	Sample Time 16:00 Eastern	Sample Type (C=comp, G=grab) Water
WGWC-11 (680-219968-1)	8/22/22	13:12 Eastern	Water
EB-05 (680-219968-2)	8/16/22	15:10 Eastern	Water
WGWC-9 (680-219968-3)	8/17/22	10:00 Eastern	Water
WGWC-9 (680-219968-3)	8/22/22	13:12 Eastern	Water
WGWC-16 (680-219968-4)	8/17/22	11:40 Eastern	Water
WGWC-16 (680-219968-4)	8/22/22	13:13 Eastern	Water
WGWC-15 (680-219968-5)	8/17/22	12:55 Eastern	Water
WGWC-15 (680-219968-5)	8/22/22	13:13 Eastern	Water
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.			
Possible Hazard Identification			
Unconfirmed Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2			
Empty Kit Relinquished by: Relinquished by: <i>g</i> Relinquished by: <i>g</i> Relinquished by:			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Date/Time 8/23/22 1730		Date/Time AUG 24 2022 0910	
Date/Time 8/23/22 1730		Date/Time AUG 24 2022 0910	
Date/Time 8/23/22 1730		Date/Time AUG 24 2022 0910	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks	



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No							
Client Contact		Fuller, David	Fuller, David		680-705927.2							
Shipping/Receiving		E-Mail	David Fuller@et.eurofins.com	State of Origin	Page 2 of 4							
Company		TestAmerica Laboratories, Inc.	Accreditations Required (See note)	Georgia	Job # 680-219968-2							
Address		Due Date Requested:	Analysis Requested	Preservation Codes:								
13715 Rider Trail North,		10/3/2022		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)								
City		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA								
State, Zip		PO #		Other:								
MO, 63045		WO #										
Phone		Project #										
314-298-8566(Tel) 314-298-8757(Fax)		68027766										
Email		SSOW#										
Project Name		Plant Wansley Ash Pond										
Site												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/ice)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	915_Ra226/PreSep_21 Radium 226	920_Ra228/PreSep_0 Radium 228	Ra226Ra228_GFP/Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:
WGWC-25 (680-219968-6)	8/17/22	14:40 Eastern	Water	Water	X	X	X	X	X	1		
WGWC-25 (680-219968-6)	8/22/22	13:13 Eastern	Water	Water	X	X	X	X	X	1		
WGWC-23 (680-219968-7)	8/17/22	15:50 Eastern	Water	Water	X	X	X	X	X	1		
WGWC-23 (680-219968-7)	8/22/22	13:13 Eastern	Water	Water	X	X	X	X	X	1		
WGWC-19 (680-219968-8)	8/17/22	17:00 Eastern	Water	Water	X	X	X	X	X	1		
WGWC-19 (680-219968-8)	8/22/22	13:13 Eastern	Water	Water	X	X	X	X	X	1		
WGWC-12 (680-219968-9)	8/18/22	12:00 Eastern	Water	Water	X	X	X	X	X	1		
WGWC-12 (680-219968-9)	8/22/22	13:13 Eastern	Water	Water	X	X	X	X	X	1		
FB-03 (680-219968-10)	8/17/22	16:35 Eastern	Water	Water	X	X	X	X	X	2		
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to state compliance to Eurofins Environment Testing Southeast, LLC</p>												
Possible Hazard Identification												
Unconfirmed												
Deliverable Requested: I, II, III, IV, Other (specify)												
Primary Deliverable Rank: 2												
Empty Kit Relinquished by: _____ Date: _____												
Relinquished by: _____ Date/Time: _____ Company: _____												
Relinquished by: _____ Date/Time: _____ Company: _____												
Relinquished by: _____ Date/Time: _____ Company: _____												
Custody Seals Intact: _____ Custody Seal No: _____												
Cooler Temperature(s) °C and Other Remarks												

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler: Fuller, David	Lab PM: Fuller, David	Carrier Tracking No(s): 680-705927 3	COC No: 680-705927 3	
Shipping/Receiving		Phone:	E-Mail: David.Fuller@et.eurofins.com	State of Origin: Georgia	Page 3 of 4	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job #: 680-219968-2	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
Address: 13715 Rider Trail North.		Due Date Requested: 10/3/2022		Analysis Requested		
City: Earth City		TAT Requested (days):		Total Number of Containers		
State, Zip: MO, 63045		PO #:		Field Filtered Sample (Yes or No)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		Perform MS/MSD (Yes or No)		
Email:		Project #:		920_Ra228/PreSep_0 Radium 228		
Plant Name: Plant Wansley Ash Pond		68027766		915_Ra226/PreSep_21 Radium 226		
Site:		SSOW#:		Ra226Ra228 GFC/ Combined Radium-226 and		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code:	Special Instructions/Note:
FD-02 (680-219968-11)	8/17/22	Eastern	Water	Water	X	2
FB-02 (680-219968-12)	8/16/22	15:30 Eastern	Water	Water	X	2
WGWC-8 (680-219968-13)	8/16/22	15:55 Eastern	Water	Water	X	1
WGWC-8 (680-219968-13)	8/22/22	13:14 Eastern	Water	Water	X	1
WGWC-20 (680-219968-14)	8/18/22	10:15 Eastern	Water	Water	X	1
WGWC-20 (680-219968-14)	8/22/22	13:14 Eastern	Water	Water	X	1
WGWC-13 (680-219968-15)	8/18/22	12:37 Eastern	Water	Water	X	1
WGWC-13 (680-219968-15)	8/22/22	13:14 Eastern	Water	Water	X	1
WGWC-24 (680-219968-16)	8/18/22	13:05 Eastern	Water	Water	X	1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements: Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Received by: *[Signature]* Date/Time: 8/25/22 1730
 Date/Time: 8/24/2022 0910
 Date/Time: _____
 Company: _____
 Company: _____
 Company: _____

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Carrier Tracking No(s)		COC No	
Client Contact		Fuller, David				680-705927.4	
Shipping/Receiving		E-Mail		State of Origin		Page	
Company		David Fuller@et.eurofins.com		Georgia		Page 4 of 4	
TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job #		680-219968-2	
Address		Due Date Requested:		Analysis Requested		Preservation Codes:	
13715 Rider Trail North,		10/3/2022				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
City		TAT Requested (days):		Field Filtered Sample (Yes or No)		Total Number of Containers	
Earth City							
State, Zip		PO #		Perform MS/MSD (Yes or No)			
MO, 63045		WO #					
Phone		Project #		920_Ra228/PreSep_0 Radium 228			
314-298-8566(Tel) 314-298-8757(Fax)		68027766		935_Ra228/PreSep_21 Radium 226			
Email		SSOW#		Ra226Ra228 GPF/ Combined Radium-226 and			
Project Name		Sample Date		Sample Time		Sample Type	
Plant Wansley Ash Pond						(C=Comp, G=grab) (BT=Tissue, AS=All)	
Site		Sample Date		Sample Time		Matrix	
						(W=water, S=solid, O=wastewat)	
		8/22/22		13:14		Preservation Code:	
WGWC-24 (680-219968-16)		8/18/22		Eastern		Water	
FD-03 (680-219968-17)		8/18/22		Eastern		Water	
EB-06 (680-219968-18)		8/18/22		11:25		Water	
WGWC-10 (680-219968-19)		8/19/22		10:10		Water	
WGWC-10 (680-219968-19)		8/22/22		13:14		Water	
WGWC-10 (680-219968-19)		8/19/22		11:35		Water	
WGWC-14A (680-219968-20)		8/22/22		13:14		Water	
WGWC-14A (680-219968-20)		8/19/22		12:21		Water	
WGWC-22 (680-219968-21)		8/19/22		13:14		Water	
WGWC-22 (680-219968-21)		8/22/22		Eastern		Water	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>							
Possible Hazard Identification							
<input type="checkbox"/> Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Special Instructions/QC Requirements							
Primary Deliverable Rank: 2							
Empty Kit Relinquished by:		Date:		Method of Shipment:		Months	
Relinquished by		8/23/22 (730)		FEDEX			
Relinquished by				Received by		Date/Time	
Relinquished by				Sena Worthington		AUG 24 2022 0910	
Custody Seals Intact:		Date/Time		Date/Time		Company	
<input type="checkbox"/> Yes <input type="checkbox"/> No						Company	
Custody Seal No.						Company	
						Company	
Cooler Temperature(s) °C and Other Remarks.							



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-2

Login Number: 219893

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-2

Login Number: 219893

List Number: 3

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 08/22/22 12:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-2

Login Number: 219968

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-219893-2

Login Number: 219968

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 08/24/22 10:41 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham Alabama 35243

Generated 11/18/2022 4:18:22 PM Revision 1

JOB DESCRIPTION

Plant Wansley

JOB NUMBER

680-223748-1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-223748-1	WGWC-26D	Water	10/19/22 11:39	10/21/22 08:00
680-223748-2	WGWC-27	Water	10/19/22 13:09	10/21/22 08:00

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Job ID: 680-223748-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-223748-1

Revision 1

The report being provided is a revision of the original report sent on 11/11/2022. The report (revision 1) is being revised in order to report missing Boron results from the batch QC for analytical batch #180-416851.

Receipt

The samples were received on 10/21/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6020B: The CCVs bracketing the method blank associated with the following samples was above the control limit for boron. The CCB immediately proceeding the method blank was also above the reporting limit for boron. The CCVs and CCBs which bracketed the samples were within acceptable control limits and the CCBs were below the reporting limit for boron.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-746718 and analytical batch 680-746949 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Client Sample ID: WGWC-26D

Lab Sample ID: 680-223748-1

Date Collected: 10/19/22 11:39

Matrix: Water

Date Received: 10/21/22 08:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		2.0	0.40	mg/L			11/10/22 19:44	2
Fluoride	1.8		0.20	0.080	mg/L			11/10/22 19:44	2
Sulfate	290		2.0	0.80	mg/L			11/10/22 19:44	2

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0069	J	0.010	0.00089	mg/L		10/24/22 14:03	10/25/22 15:52	1
Beryllium	0.0040		0.0025	0.00020	mg/L		10/24/22 14:03	10/25/22 15:52	1
Cadmium	0.00014	J	0.0025	0.000078	mg/L		10/24/22 14:03	10/25/22 15:52	1
Calcium	130		0.50	0.14	mg/L		10/24/22 14:03	10/25/22 15:52	1
Cobalt	0.0016	J	0.0025	0.00022	mg/L		10/24/22 14:03	10/25/22 15:52	1
Molybdenum	0.0087	J	0.015	0.00086	mg/L		10/24/22 14:03	10/25/22 15:52	1
Selenium	0.0014	J	0.0050	0.0012	mg/L		10/24/22 14:03	10/25/22 15:52	1
Thallium	<0.00026		0.0010	0.00026	mg/L		10/24/22 14:03	10/25/22 15:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		10/24/22 16:55	10/25/22 13:56	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		11/01/22 11:45	11/02/22 18:03	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 11:45	11/02/22 18:03	1
Boron	2.9	B	0.080	0.060	mg/L		11/01/22 11:45	11/02/22 18:03	1
Chromium	0.0024		0.0020	0.0015	mg/L		11/01/22 11:45	11/02/22 18:03	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 11:45	11/02/22 18:03	1
Lithium	0.16		0.0050	0.00083	mg/L		11/01/22 11:45	11/02/22 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	840		40	40	mg/L			10/25/22 12:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.27				SU			10/19/22 11:39	1

Client Sample ID: WGWC-27

Lab Sample ID: 680-223748-2

Date Collected: 10/19/22 13:09

Matrix: Water

Date Received: 10/21/22 08:00

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.20	mg/L			11/10/22 19:57	1
Fluoride	0.52		0.10	0.040	mg/L			11/10/22 19:57	1
Sulfate	12		1.0	0.40	mg/L			11/10/22 19:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0036	J	0.010	0.00089	mg/L		10/24/22 12:23	10/25/22 17:55	1
Beryllium	0.00054	J	0.0025	0.00020	mg/L		10/24/22 12:23	10/25/22 17:55	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		10/24/22 12:23	10/25/22 17:55	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Client Sample ID: WGWC-27

Lab Sample ID: 680-223748-2

Date Collected: 10/19/22 13:09

Matrix: Water

Date Received: 10/21/22 08:00

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	5.9		0.50	0.14	mg/L		10/24/22 12:23	10/25/22 17:55	1
Cobalt	0.0020	J	0.0025	0.00022	mg/L		10/24/22 12:23	10/25/22 17:55	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		10/24/22 12:23	10/25/22 17:55	1
Selenium	<0.0012		0.0050	0.0012	mg/L		10/24/22 12:23	10/25/22 17:55	1
Thallium	<0.00026		0.0010	0.00026	mg/L		10/24/22 12:23	10/25/22 17:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		10/24/22 16:55	10/25/22 13:59	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		11/01/22 11:45	11/02/22 18:18	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 11:45	11/02/22 18:18	1
Boron	0.098	B	0.080	0.060	mg/L		11/01/22 11:45	11/02/22 18:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 11:45	11/02/22 18:18	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 11:45	11/02/22 18:18	1
Lithium	0.0072		0.0050	0.00083	mg/L		11/01/22 11:45	11/02/22 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	92		10	10	mg/L			10/25/22 12:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.93				SU			10/19/22 13:09	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-750035/33
Matrix: Water
Analysis Batch: 750035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			11/10/22 17:44	1
Fluoride	<0.040		0.10	0.040	mg/L			11/10/22 17:44	1
Sulfate	<0.40		1.0	0.40	mg/L			11/10/22 17:44	1

Lab Sample ID: LCS 680-750035/36
Matrix: Water
Analysis Batch: 750035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.84		mg/L		98	90 - 110
Fluoride	2.00	2.01		mg/L		100	90 - 110
Sulfate	10.0	8.97		mg/L		90	90 - 110

Lab Sample ID: LCSD 680-750035/37
Matrix: Water
Analysis Batch: 750035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.84		mg/L		98	90 - 110	0	15
Fluoride	2.00	2.03		mg/L		102	90 - 110	1	15
Sulfate	10.0	9.03		mg/L		90	90 - 110	1	15

Lab Sample ID: 680-223772-I-23 MS
Matrix: Water
Analysis Batch: 750035

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12		10.0	22.6		mg/L		106	80 - 120
Fluoride	0.075	J	2.00	2.27		mg/L		110	80 - 120
Sulfate	2.0		10.0	12.0		mg/L		100	80 - 120

Lab Sample ID: 680-223772-I-23 MSD
Matrix: Water
Analysis Batch: 750035

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12		10.0	22.7		mg/L		107	80 - 120	0	15
Fluoride	0.075	J	2.00	2.29		mg/L		111	80 - 120	1	15
Sulfate	2.0		10.0	12.0		mg/L		101	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-746645/1-A
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		10/24/22 12:23	10/25/22 17:11	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		10/24/22 12:23	10/25/22 17:11	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		10/24/22 12:23	10/25/22 17:11	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-746645/1-A
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.14		0.50	0.14	mg/L		10/24/22 12:23	10/25/22 17:11	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		10/24/22 12:23	10/25/22 17:11	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		10/24/22 12:23	10/25/22 17:11	1
Selenium	<0.0012		0.0050	0.0012	mg/L		10/24/22 12:23	10/25/22 17:11	1
Thallium	<0.00026		0.0010	0.00026	mg/L		10/24/22 12:23	10/25/22 17:11	1

Lab Sample ID: LCS 680-746645/2-A
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.114		mg/L		114	80 - 120
Beryllium	0.0500	0.0592		mg/L		118	80 - 120
Cadmium	0.0500	0.0564		mg/L		113	80 - 120
Calcium	5.00	5.54		mg/L		111	80 - 120
Cobalt	0.0500	0.0584		mg/L		117	80 - 120
Molybdenum	0.100	0.105		mg/L		105	80 - 120
Selenium	0.100	0.110		mg/L		110	80 - 120
Thallium	0.0500	0.0539		mg/L		108	80 - 120

Lab Sample ID: 680-223801-A-2-E MS
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 746645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.048		0.100	0.164		mg/L		116	75 - 125
Beryllium	0.00022	J	0.0500	0.0593		mg/L		118	75 - 125
Cadmium	<0.000078		0.0500	0.0575		mg/L		115	75 - 125
Calcium	1.7		5.00	7.33		mg/L		113	75 - 125
Cobalt	0.00062	J	0.0500	0.0595		mg/L		118	75 - 125
Molybdenum	<0.00086		0.100	0.106		mg/L		106	75 - 125
Selenium	<0.0012		0.100	0.109		mg/L		109	75 - 125
Thallium	<0.00026		0.0500	0.0558		mg/L		112	75 - 125

Lab Sample ID: 680-223801-A-2-F MSD
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 746645

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.048		0.100	0.157		mg/L		108	75 - 125	5	20
Beryllium	0.00022	J	0.0500	0.0573		mg/L		114	75 - 125	3	20
Cadmium	<0.000078		0.0500	0.0532		mg/L		106	75 - 125	8	20
Calcium	1.7		5.00	6.93		mg/L		105	75 - 125	6	20
Cobalt	0.00062	J	0.0500	0.0563		mg/L		112	75 - 125	5	20
Molybdenum	<0.00086		0.100	0.100		mg/L		100	75 - 125	5	20
Selenium	<0.0012		0.100	0.104		mg/L		104	75 - 125	5	20
Thallium	<0.00026		0.0500	0.0529		mg/L		106	75 - 125	5	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-746680/1-A
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		10/24/22 14:03	10/25/22 14:41	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		10/24/22 14:03	10/25/22 14:41	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		10/24/22 14:03	10/25/22 14:41	1
Calcium	<0.14		0.50	0.14	mg/L		10/24/22 14:03	10/25/22 14:41	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		10/24/22 14:03	10/25/22 14:41	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		10/24/22 14:03	10/25/22 14:41	1
Selenium	<0.0012		0.0050	0.0012	mg/L		10/24/22 14:03	10/25/22 14:41	1
Thallium	<0.00026		0.0010	0.00026	mg/L		10/24/22 14:03	10/25/22 14:41	1

Lab Sample ID: LCS 680-746680/2-A
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0944		mg/L		94	80 - 120
Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Calcium	5.00	4.97		mg/L		100	80 - 120
Cobalt	0.0500	0.0515		mg/L		103	80 - 120
Molybdenum	0.100	0.0943		mg/L		94	80 - 120
Selenium	0.100	0.0989		mg/L		99	80 - 120
Thallium	0.0500	0.0469		mg/L		94	80 - 120

Lab Sample ID: 680-223778-A-11-B MS
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 746680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.046		0.100	0.145		mg/L		99	75 - 125
Beryllium	<0.00020		0.0500	0.0524		mg/L		105	75 - 125
Cadmium	<0.000078		0.0500	0.0531		mg/L		106	75 - 125
Calcium	1.3		5.00	6.56		mg/L		106	75 - 125
Cobalt	0.0034		0.0500	0.0572		mg/L		108	75 - 125
Molybdenum	<0.00086		0.100	0.106		mg/L		106	75 - 125
Selenium	<0.0012		0.100	0.105		mg/L		104	75 - 125
Thallium	<0.00026		0.0500	0.0527		mg/L		105	75 - 125

Lab Sample ID: 680-223778-A-11-C MSD
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 746680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.046		0.100	0.130		mg/L		83	75 - 125	11	20
Beryllium	<0.00020		0.0500	0.0471		mg/L		94	75 - 125	11	20
Cadmium	<0.000078		0.0500	0.0477		mg/L		95	75 - 125	11	20
Calcium	1.3		5.00	5.79		mg/L		91	75 - 125	12	20
Cobalt	0.0034		0.0500	0.0514		mg/L		96	75 - 125	11	20
Molybdenum	<0.00086		0.100	0.0954		mg/L		95	75 - 125	11	20
Selenium	<0.0012		0.100	0.0955		mg/L		95	75 - 125	9	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-223778-A-11-C MSD
Matrix: Water
Analysis Batch: 747058

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 746680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	<0.00026		0.0500	0.0458		mg/L		92	75 - 125	14	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-746718/1-A
Matrix: Water
Analysis Batch: 746949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		10/24/22 16:55	10/25/22 13:00	1

Lab Sample ID: LCS 680-746718/2-A
Matrix: Water
Analysis Batch: 746949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00247		mg/L		99	80 - 120

Lab Sample ID: 680-223778-T-11-B MS
Matrix: Water
Analysis Batch: 746949

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 746718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080	F1	0.00100	0.000429	F1	mg/L		43	80 - 120

Lab Sample ID: 680-223778-T-11-C MSD
Matrix: Water
Analysis Batch: 746949

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 746718

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080	F1	0.00100	0.000415	F1	mg/L		42	80 - 120	3	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-416851/1-A
Matrix: Water
Analysis Batch: 417094

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		11/01/22 11:45	11/02/22 15:47	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 11:45	11/02/22 15:47	1
Boron	0.0795	J ^+	0.080	0.060	mg/L		11/01/22 11:45	11/02/22 15:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 11:45	11/02/22 15:47	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 11:45	11/02/22 15:47	1
Lithium	<0.00083		0.0050	0.00083	mg/L		11/01/22 11:45	11/02/22 15:47	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-416851/2-A
Matrix: Water
Analysis Batch: 417094

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.241		mg/L		96	80 - 120
Arsenic	1.00	1.05		mg/L		105	80 - 120
Boron	1.25	1.09	^+	mg/L		87	80 - 120
Chromium	0.500	0.537		mg/L		107	80 - 120
Lead	0.500	0.540		mg/L		108	80 - 120
Lithium	0.500	0.519		mg/L		104	80 - 120

Lab Sample ID: 180-147071-C-1-B MS
Matrix: Water
Analysis Batch: 417094

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 416851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.252		mg/L		101	75 - 125
Arsenic	0.00064	J	1.00	1.09		mg/L		108	75 - 125
Boron	0.14	B ^+	1.25	1.25	^+	mg/L		89	75 - 125
Chromium	<0.0015		0.500	0.554		mg/L		111	75 - 125
Lead	<0.00017		0.500	0.573		mg/L		115	75 - 125
Lithium	0.034		0.500	0.577		mg/L		109	75 - 125

Lab Sample ID: 180-147071-C-1-C MSD
Matrix: Water
Analysis Batch: 417094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 416851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00051		0.250	0.245		mg/L		98	75 - 125	3	20
Arsenic	0.00064	J	1.00	1.07		mg/L		107	75 - 125	1	20
Boron	0.14	B ^+	1.25	1.23	^+	mg/L		87	75 - 125	2	20
Chromium	<0.0015		0.500	0.547		mg/L		109	75 - 125	1	20
Lead	<0.00017		0.500	0.555		mg/L		111	75 - 125	3	20
Lithium	0.034		0.500	0.564		mg/L		106	75 - 125	2	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-746883/1
Matrix: Water
Analysis Batch: 746883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/25/22 12:32	1

Lab Sample ID: LCS 680-746883/2
Matrix: Water
Analysis Batch: 746883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2420	2450		mg/L		101	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCSD 680-746883/3
Matrix: Water
Analysis Batch: 746883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2420	2370		mg/L	-	98	80 - 120	3	25

Lab Sample ID: 680-223748-1 DU
Matrix: Water
Analysis Batch: 746883

Client Sample ID: WGWC-26D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	840		832		mg/L	-	1	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

HPLC/IC

Analysis Batch: 750035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total/NA	Water	300.0-1993 R2.1	
680-223748-2	WGWC-27	Total/NA	Water	300.0-1993 R2.1	
MB 680-750035/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-750035/36	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-750035/37	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-223772-I-23 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-223772-I-23 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 416851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total Recoverable	Water	3005A	
680-223748-2	WGWC-27	Total Recoverable	Water	3005A	
MB 180-416851/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416851/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-147071-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
180-147071-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 417094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total Recoverable	Water	EPA 6020B	416851
680-223748-2	WGWC-27	Total Recoverable	Water	EPA 6020B	416851
MB 180-416851/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416851
LCS 180-416851/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416851
180-147071-C-1-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	416851
180-147071-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	416851

Prep Batch: 746645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-2	WGWC-27	Total Recoverable	Water	3005A	
MB 680-746645/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-746645/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-223801-A-2-E MS	Matrix Spike	Total Recoverable	Water	3005A	
680-223801-A-2-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 746680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total Recoverable	Water	3005A	
MB 680-746680/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-746680/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-223778-A-11-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-223778-A-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 746718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total/NA	Water	7470A	
680-223748-2	WGWC-27	Total/NA	Water	7470A	
MB 680-746718/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-746718/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-223778-T-11-B MS	Matrix Spike	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Metals (Continued)

Prep Batch: 746718 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223778-T-11-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 746949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total/NA	Water	7470A	746718
680-223748-2	WGWC-27	Total/NA	Water	7470A	746718
MB 680-746718/1-A	Method Blank	Total/NA	Water	7470A	746718
LCS 680-746718/2-A	Lab Control Sample	Total/NA	Water	7470A	746718
680-223778-T-11-B MS	Matrix Spike	Total/NA	Water	7470A	746718
680-223778-T-11-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	746718

Analysis Batch: 747058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total Recoverable	Water	6020B	746680
680-223748-2	WGWC-27	Total Recoverable	Water	6020B	746645
MB 680-746645/1-A	Method Blank	Total Recoverable	Water	6020B	746645
MB 680-746680/1-A	Method Blank	Total Recoverable	Water	6020B	746680
LCS 680-746645/2-A	Lab Control Sample	Total Recoverable	Water	6020B	746645
LCS 680-746680/2-A	Lab Control Sample	Total Recoverable	Water	6020B	746680
680-223778-A-11-B MS	Matrix Spike	Total Recoverable	Water	6020B	746680
680-223778-A-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	746680
680-223801-A-2-E MS	Matrix Spike	Total Recoverable	Water	6020B	746645
680-223801-A-2-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	746645

General Chemistry

Analysis Batch: 746883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total/NA	Water	2540C-2011	
680-223748-2	WGWC-27	Total/NA	Water	2540C-2011	
MB 680-746883/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-746883/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-746883/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-223748-1 DU	WGWC-26D	Total/NA	Water	2540C-2011	

Field Service / Mobile Lab

Analysis Batch: 746530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total/NA	Water	Field Sampling	
680-223748-2	WGWC-27	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Client Sample ID: WGWC-26D

Lab Sample ID: 680-223748-1

Date Collected: 10/19/22 11:39

Matrix: Water

Date Received: 10/21/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		2	5 mL	5 mL	750035	11/10/22 19:44	UI	EET SAV
Instrument ID: CICH										
Total Recoverable	Prep	3005A			50 mL	250 mL	746680	10/24/22 14:03	RR	EET SAV
Total Recoverable	Analysis	6020B		1			747058	10/25/22 15:52	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	746718	10/24/22 16:55	JKL	EET SAV
Total/NA	Analysis	7470A		1			746949	10/25/22 13:56	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	416851	11/01/22 11:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/02/22 18:03	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	746883	10/25/22 12:32	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			746530	10/19/22 11:39	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-27

Lab Sample ID: 680-223748-2

Date Collected: 10/19/22 13:09

Matrix: Water

Date Received: 10/21/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	750035	11/10/22 19:57	UI	EET SAV
Instrument ID: CICH										
Total Recoverable	Prep	3005A			50 mL	250 mL	746645	10/24/22 12:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			747058	10/25/22 17:55	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	746718	10/24/22 16:55	JKL	EET SAV
Total/NA	Analysis	7470A		1			746949	10/25/22 13:59	JKL	EET SAV
Instrument ID: QuickTrace2										
Total Recoverable	Prep	3005A			25 mL	25 mL	416851	11/01/22 11:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/02/22 18:18	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	746883	10/25/22 12:32	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			746530	10/19/22 13:09	T1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-23-23
Georgia	State	E87052	06-30-23

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	PA 02-00416	11-15-22
Pennsylvania	NELAP	02-00416	11-15-22

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

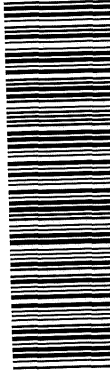
Chain of Custody Record

Client Information Client Contact: <u>1910x GORDON</u> SCS Contacts: <u>770-594-5999</u> Company: <u>GA Power</u>		Lab PM: <u>Fuller David</u> E-Mail: <u>david.fuller@eurofins.com</u>		Carrier Tracking Note(s): 		COC No: Page: Job #: 			
Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>68027766</u> Project Name: <u>SCS Contacts / Geosyntec Contacts / ACC Contacts</u> Plant: <u>Wansley</u> Site:		Analysis Requested 		Preservation Codes: A - HCL B - NaOH C - Zinc Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		Special Instructions/Note: <u>Full APP III and APP IV</u>			
Due Date Requested: TAT Requested (days):		Total Number of containers: <u>244-ATLANTA</u>		pH = <u>6.27</u> pH = <u>5.93</u>		 			
Lab Project #: <u>68027766</u> PO #: <u> </u> Project #: <u> </u> SSON#: <u> </u>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No App III Metals B, Ca <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cl, F, SO4 & TDS (EPA 300 & SM 2540C) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No App IV Metals (EPA 6020/7470) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mn, O, Se, Ti <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Radium 226 & 228 (SW-846 9315/9320) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Type (C=Comp, G=grab) <u>G</u> Sample Time (hhmm) <u>1309</u> Sample Date (mm/dd/yy) <u>10/19/22</u> Matrix (WG=ground water, WS=surface water, WC=quality control) <u>WG</u>		Sample Disposal (A fee may be assessed) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal Special Instructions/QC Requirements		 	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV Other (specify)		Date Requested: <u>10/19/22</u> Date/Time: <u>10:32</u> Date/Time: <u>10:32</u> Date/Time: <u>10:32</u>		Method of Shipment: 		Date/Type: <u>10/19/22 10:32</u> Date/Time: <u>10/19/22 10:32</u> Date/Time: <u>10/19/22 10:32</u>			
Empty Kit Relinquished by: <u>Taylor G. Gordon</u> Relinquished by: <u>Taylor G. Gordon</u> Relinquished by: <u>Michael P. Meekes</u> Relinquished by: <u>Michael P. Meekes</u>		Date: <u>10/19/22</u> Date: <u>10/19/22</u> Date: <u>10/19/22</u>		Date/Type: <u>10/19/22 10:32</u> Date/Time: <u>10/19/22 10:32</u> Date/Time: <u>10/19/22 10:32</u>		Company: <u>ACC</u> Company: <u>ACC</u> Company: <u>ACC</u>			
Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal No: <u>1.2 / 1.2</u>		Cooler Temperature(s) °C and Other Remarks: <u>1.2 / 1.2</u>		 		 			



Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Chain of Custody Record



IS

Client Information (Sub Contract Lab)
 Client Contact: **Lab PMI Fuller, David**
 Shipping/Receiving
 Eurofins Environment Testing Northeast,
 301 Alpha Drive, RIDC Park,
 City: **Pittsburgh**
 State Zip
 PA, 15238
 Phone
 412-963-7058 (Tel) 412-963-2468 (Fax)
 Email
 Project Name
 Plant Wansley
 Site

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/OIL, B=TISSUE, A=AIR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005A Custom 8 (App III + App IV)	Total Number of Containers	Special Instructions/Note:
WGWC-26D (680-223748-1)	10/19/22	11 39 Eastern		Water	X	X		1	
WGWC-27 (680-223748-2)	10/19/22	13 09 Eastern		Water	X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested 1, II, III, IV, Other (specify) **Primary Deliverable Rank. 2**
 Empty Kit Relinquished by
 Relinquished by **DW** Date **10/27/22** Time **6:00** Company
 Relinquished by Date/Time Company
 Relinquished by Date/Time Company
 Custody Seals Intact: **Yes**
 Custody Seal No

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-223748-1

Login Number: 223748

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-223748-1

Login Number: 223748

List Number: 3

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 10/28/22 05:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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11/18/2022 4:18:22 PM
Revision 1

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 12/9/2022 12:39:40 PM

JOB DESCRIPTION

Plant Wansley

JOB NUMBER

680-223748-2

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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12/9/2022 12:39:40 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-223748-1	WGWC-26D	Water	10/19/22 11:39	10/21/22 08:00
680-223748-2	WGWC-27	Water	10/19/22 13:09	10/21/22 08:00

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Job ID: 680-223748-2

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-223748-2**

Receipt

The samples were received on 10/21/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 589027 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-26D (680-223748-1), WGWC-27 (680-223748-2), (LCS 160-589027/2-A), (MB 160-589027/1-A), (480-203220-A-4-A), (480-203220-A-4-B MS) and (480-203220-A-4-C MSD)

Method 9320_Ra228: Radium-228 batch 589067 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. WGWC-26D (680-223748-1), WGWC-27 (680-223748-2), (LCS 160-589067/2-A), (MB 160-589067/1-A), (480-203220-A-4-D), (480-203220-A-4-E MS) and (480-203220-A-4-F MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Client Sample ID: WGWC-26D

Lab Sample ID: 680-223748-1

Date Collected: 10/19/22 11:39

Matrix: Water

Date Received: 10/21/22 08:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.00		0.281	0.334	1.00	0.151	pCi/L	11/07/22 09:45	11/30/22 20:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.5		40 - 110					11/07/22 09:45	11/30/22 20:31	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.77		0.575	0.597	1.00	0.635	pCi/L	11/07/22 10:17	11/22/22 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.5		40 - 110					11/07/22 10:17	11/22/22 13:12	1
Y Carrier	71.8		40 - 110					11/07/22 10:17	11/22/22 13:12	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.77		0.640	0.684	2.00	0.635	pCi/L		12/02/22 13:40	1

Client Sample ID: WGWC-27

Lab Sample ID: 680-223748-2

Date Collected: 10/19/22 13:09

Matrix: Water

Date Received: 10/21/22 08:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.150		0.0867	0.0877	1.00	0.111	pCi/L	11/07/22 09:45	11/30/22 20:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/07/22 09:45	11/30/22 20:28	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0354	U	0.239	0.239	1.00	0.445	pCi/L	11/07/22 10:17	11/22/22 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/07/22 10:17	11/22/22 13:12	1
Y Carrier	87.9		40 - 110					11/07/22 10:17	11/22/22 13:12	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Client Sample ID: WGWC-27

Lab Sample ID: 680-223748-2

Date Collected: 10/19/22 13:09

Matrix: Water

Date Received: 10/21/22 08:00

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.185	U	0.254	0.255	2.00	0.445	pCi/L		12/02/22 13:40	1

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Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
480-203220-A-4-B MS	Matrix Spike	88.4
480-203220-A-4-C MSD	Matrix Spike Duplicate	80.7
680-223748-1	WGWC-26D	72.5
680-223748-2	WGWC-27	90.3
LCS 160-589027/2-A	Lab Control Sample	90.1
MB 160-589027/1-A	Method Blank	93.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
480-203220-A-4-E MS	Matrix Spike	88.4	74.8
480-203220-A-4-F MSD	Matrix Spike Duplicate	80.7	76.6
680-223748-1	WGWC-26D	72.5	71.8
680-223748-2	WGWC-27	90.3	87.9
LCS 160-589067/2-A	Lab Control Sample	90.1	83.4
MB 160-589067/1-A	Method Blank	93.5	82.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-589027/1-A
Matrix: Water
Analysis Batch: 591518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589027

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03534	U	0.0549	0.0549	1.00	0.0953	pCi/L	11/07/22 09:45	11/29/22 19:11	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					11/07/22 09:45	11/29/22 19:11	1
	93.5									

Lab Sample ID: LCS 160-589027/2-A
Matrix: Water
Analysis Batch: 591518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589027

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.26		1.27	1.00	0.0998	pCi/L	108	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	90.1								

Lab Sample ID: 480-203220-A-4-B MS
Matrix: Water
Analysis Batch: 591518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 589027

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
						Uncert. (2σ+/-)					
Radium-226	0.138		11.3	11.93		1.25	1.00	0.129	pCi/L	104	60 - 140
Carrier	MS	MS	Limits								
Ba Carrier	%Yield	Qualifier	40 - 110								
	88.4										

Lab Sample ID: 480-203220-A-4-C MSD
Matrix: Water
Analysis Batch: 591518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 589027

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
						Uncert. (2σ+/-)							
Radium-226	0.138		11.3	12.26		1.29	1.00	0.123	pCi/L	108	60 - 140	0.13	1
Carrier	MSD	MSD	Limits										
Ba Carrier	%Yield	Qualifier	40 - 110										
	80.7												

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-589067/1-A
Matrix: Water
Analysis Batch: 590947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589067

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2975	U	0.311	0.312	1.00	0.504	pCi/L	11/07/22 10:17	11/22/22 13:14	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	93.5		40 - 110	11/07/22 10:17	11/22/22 13:14	1
Y Carrier	82.2		40 - 110	11/07/22 10:17	11/22/22 13:14	1

Lab Sample ID: LCS 160-589067/2-A
Matrix: Water
Analysis Batch: 590947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589067

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	90.1		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: 480-203220-A-4-E MS
Matrix: Water
Analysis Batch: 590932

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 589067

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	MS MS		Limits
	%Yield	Qualifier	
Ba Carrier	88.4		40 - 110
Y Carrier	74.8		40 - 110

Lab Sample ID: 480-203220-A-4-F MSD
Matrix: Water
Analysis Batch: 590932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 589067

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit

Carrier	MSD MSD		Limits
	%Yield	Qualifier	
Ba Carrier	80.7		40 - 110
Y Carrier	76.6		40 - 110

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Rad

Prep Batch: 589027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total/NA	Water	PrecSep-21	
680-223748-2	WGWC-27	Total/NA	Water	PrecSep-21	
MB 160-589027/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-589027/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
480-203220-A-4-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
480-203220-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 589067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223748-1	WGWC-26D	Total/NA	Water	PrecSep_0	
680-223748-2	WGWC-27	Total/NA	Water	PrecSep_0	
MB 160-589067/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-589067/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
480-203220-A-4-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
480-203220-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Client Sample ID: WGWC-26D

Lab Sample ID: 680-223748-1

Date Collected: 10/19/22 11:39

Matrix: Water

Date Received: 10/21/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.99 mL	1.0 g	589027	11/07/22 09:45	BMP	EET SL
Total/NA	Analysis	9315		1			591652	11/30/22 20:31	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			998.99 mL	1.0 g	589067	11/07/22 10:17	BMP	EET SL
Total/NA	Analysis	9320		1			590945	11/22/22 13:12	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			592078	12/02/22 13:40	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-27

Lab Sample ID: 680-223748-2

Date Collected: 10/19/22 13:09

Matrix: Water

Date Received: 10/21/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.44 mL	1.0 g	589027	11/07/22 09:45	BMP	EET SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	591654	11/30/22 20:28	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.44 mL	1.0 g	589067	11/07/22 10:17	BMP	EET SL
Total/NA	Analysis	9320		1			590945	11/22/22 13:12	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			592078	12/02/22 13:40	SCB	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	12-07-22
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22 *
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah

Method Summary

Client: Southern Company
Project/Site: Plant Wansley

Job ID: 680-223748-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Chain of Custody Record

Client Information Client Contact: <u>1910x GORDON</u> SCS Contacts Company: <u>GA Power</u> Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>68027766</u> Project Name: <u>SCS Contacts / Geosyntec Contacts / ACC Contacts</u> Plant: <u>Wansley</u> Site:		Lab PM: <u>Fuller David</u> E-Mail: <u>david.fuller@eurofins.com</u> Due Date Requested: TAT Requested (days): Lab Project #: <u>68027766</u> PO #: Project #: SSON#:		Carrier Tracking Note(s): Job #: Analysis Requested: Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No App III Metals B, Ca <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No App IV Metals (EPA 6020/7470) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Radium 226 & 228 (SW-846 9315/9320) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		COC No: Page: Preservation Codes: A - HCL B - NaOH C - Zinc chloride D - Nitric acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		Special Instructions/Note: <u>Full APP III and APP IV</u> Total Number of containers: <u>2</u> pH = <u>6.27</u> pH = <u>5.93</u>	
Sample Identification Sample ID: <u>WGWC-26</u> <u>WGWC-27</u>		Sample Date (mm/dd/yy): <u>10/19/22</u> <u>10/19/22</u>	Sample Time (hh:mm): <u>1309</u> <u>1309</u>	Sample Type (C=Comp, G=grab): <u>G</u> <u>G</u>	Matrix (WG=ground water, WS=surface water, WC=quality control): <u>WG</u> <u>WG</u>	Preservation Code: <u> </u> <u> </u>			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV Other (specify)									
Empty Kit Relinquished by:									
Relinquished by: <u>Taylor G. Gordon</u> Relinquished by: <u>Michael P. Meekes</u> Relinquished by:		Date/Time: <u>10/20/22 10:32</u> <u>10/20/22 10:32</u>		Date/Time: <u>10/20/22 10:32</u> <u>10/20/22 10:32</u>		Date/Time: <u>10/20/22 10:32</u> <u>10/20/22 10:32</u>			
Relinquished by: <u>Taylor G. Gordon</u> Relinquished by: <u>Michael P. Meekes</u> Relinquished by:		Date/Time: <u>10/20/22 10:32</u> <u>10/20/22 10:32</u>		Date/Time: <u>10/20/22 10:32</u> <u>10/20/22 10:32</u>		Date/Time: <u>10/20/22 10:32</u> <u>10/20/22 10:32</u>			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>1.2 / 1.2</u>		Method of Shipment: Date/Time: <u>10/20/22 10:32</u> <u>10/20/22 10:32</u>			



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Fuller, David	Carrier Tracking No(s): 680-713605.1	
Shipping/Receiving		E-Mail: David.Fuller@et.eurofins.com	Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 680-223748-2		
Address: 13715 Rider Trail North,		State of Origin: Georgia		
City: Earth City		Job #		
State, Zip: MO, 63045		Preservation Codes: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Trizma Z - other (specify)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Other:		
Email:				
Project #: 68027766				
Plant Name: Plant Wansley				
Site: Site				
Due Date Requested: 11/3/2022		Analysis Requested		
TAT Requested (days):				
PO #				
WO #				
Project #				
68027766				
SSOW#				
Sample Identification - Client ID (Lab ID)		Total Number of Containers		
WGWC-26D (680-223748-1)		2		
WGWC-27 (680-223748-2)		2		
WGWC-28				
WGWC-29				
WGWC-30				
WGWC-31				
WGWC-32				
WGWC-33				
WGWC-34				
WGWC-35				
WGWC-36				
WGWC-37				
WGWC-38				
WGWC-39				
WGWC-40				
WGWC-41				
WGWC-42				
WGWC-43				
WGWC-44				
WGWC-45				
WGWC-46				
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WGWC-89				
WGWC-90				
WGWC-91				
WGWC-92				
WGWC-93				
WGWC-94				
WGWC-95				
WGWC-96				
WGWC-97				
WGWC-98				
WGWC-99				
WGWC-100				

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Empty Kit Relinquished by:	Date:	Method of Shipment:
Relinquished by: <i>David Fuller</i>	10/29/22 1700	
Relinquished by: FED EX		Company
Relinquished by:		Company
Relinquished by:		Company

Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-223748-2

Login Number: 223748

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-223748-2

Login Number: 223748

List Number: 2

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 10/26/22 12:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Data Validation Reports

Memorandum

Date: February 10, 2022
To: Adria Reimer
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
TestAmerica Laboratory Job ID 180-132517-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six water samples, one field duplicate sample, one equipment blank and one field blank, collected 11-12 January 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions. The non-detect TDS results in samples EB-1 and FB-1 were R qualified as rejected due to holding time exceedances. Rejected data should not be used and the remaining qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
180-132517-1	WGWC-20
180-132517-2	WGWC-21
180-132517-3	WGWC-22
180-132517-4	WGWC-23
180-132517-5	WGWC-24

Laboratory IDs	Client IDs
180-132517-6	WGWC-25
180-132517-7	EB-1
180-132517-8	FB-1
180-132517-9	Dup-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Radiochemistry analyses were requested on the chain of custody (COC), but per client email, the radiochemistry analyses will be reported separately.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 385737). Metals were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Barium and boron were detected in the equipment blank at estimated concentrations greater than the MDLs and less than the reporting limits (RLs). Therefore, the estimated concentrations of barium and boron in the associated samples were U qualified as not detected at the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-21	Barium	0.0076	J	0.010	U	3
WGWC-23	Barium	0.0072	J	0.010	U	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-23	Boron	0.048	J	0.080	U	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.7 Field Blank

One field blank, FB-1 was collected with the sample set. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWC-24.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample

- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 **Holding Time**

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 385582). Mercury was not detected in the method blank above the MDL.

2.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSD pairs were not reported.

2.5 **Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 **Equipment Blank**

One equipment blank, EB-1 was collected with the sample set. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank, FB-1 was collected with the sample set. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWC-24.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ⊗ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives, with the following exceptions. The non-detect TDS results in samples EB-1 and FB-1 were R qualified as rejected due to holding time exceedances. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 94.2%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses, with the following exceptions.

Samples Dup-1, EB-1, FB-1, WGWC-21, WGWC-22, WGWC-23, WGWC-24 and WGWC-25 were received in the laboratory and analyzed past the seven-day holding time for TDS analysis. Therefore, the concentrations of TDS in the associated samples were J- qualified as estimated and the non-detect TDS results were R qualified as rejected.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-23	Total Dissolved Solids	67	H	67	J-	2
WGWC-25	Total Dissolved Solids	220	H	220	J-	2
WGWC-22	Total Dissolved Solids	270	H	270	J-	2
WGWC-24	Total Dissolved Solids	320	H	320	J-	2
Dup-1	Total Dissolved Solids	340	H	340	J-	2
WGWC-21	Total Dissolved Solids	580	H	580	J-	2
EB-1	Total Dissolved Solids	<10	H	<10	R	2
FB-1	Total Dissolved Solids	<10	H	<10	R	2

mg/L- milligram per liter

H-laboratory flag indicating the sample was prepped or analyzed beyond the specified holding time

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 385392). One method blank was reported for TDS (batch 385537). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for anions, using sample WGWC-22. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of sulfate in the MS/MSD pair using sample WGWC-22 were low and outside the laboratory specified acceptance criteria. Therefore, the concentration of sulfate in sample WGWC-22 was J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-22	Sulfate	140	F1	140	J-	4

mg/L-milligrams per liter

F1-laboratory flag indicating the MS and/or MSD recovery exceeds control limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample Dup-1. The RPD result was within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Field Blank

One field blank, FB-1 was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs.

3.9 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWC-24.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 20, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
Laboratory Job IDs 180-134564-1 Revision 1 and 180-134564-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six water samples, one field duplicate sample, one equipment blank and one field blank, collected 28 February and 1 March 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
180-134564-1	WGWA-1
180-134564-2	EB-1
180-134564-3	FB-1
180-134564-4	WGWA-2
180-134568-1	WGWA-3

Laboratory ID	Client ID
180-134568-2	WGWA-4
180-134568-3	WGWA-5
180-134568-4	WGWA-6
180-134568-5	Dup-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

Laboratory report 180-134564-1 was revised on April 6, 2022, to correct the boron result for WGWA-1 (180-134564-1) and WGWA-6. The revised report was identified as 180-134564-1 Revision 1.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 **Overall Assessment**

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.1 **Analysis Anomaly**

It was noted in the case narrative that beryllium recovered above the upper control limit in a bracketing continuing calibration verification (CCV) in batch 3941051. Since beryllium was not detected in the associated samples, no qualifications were applied to the data.

1.2 **Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 390792). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Lead was detected in the method blank at an estimated concentration greater than the MDL and less than the RL. Since lead was not detected in the associated samples, no qualifications were applied to the data.

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs.

1.7 Field Blank

One field blank, FB-1 was collected with the sample set. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWA-3, with the following exceptions.

Lithium and manganese were detected at a concentration greater than the MDL in Dup-1 and were not detected in WGWA-3, resulting in noncalculable RPDs. Therefore, based on professional and technical judgment, the lithium and manganese concentrations in Dup-1 were J qualified as estimated and the non-detect lithium and manganese results in WGWA-3 were UJ qualified as estimated less than the MDLs.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWA-3	Lithium	0.00083	U	NC	0.00083	UJ	7
Dup-1	Lithium	0.0013	J		0.0013	J	7
WGWA-3	Manganese	0.0013	U	NC	0.0013	UJ	7
Dup-1	Manganese	0.010	NA		0.010	J	7

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

U-not detected at or above the MDL

NA-not applicable

NC-not calculable

RPD-relative percent difference

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 391543 and 391618). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank, FB-1 was collected with the sample set. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD $\leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, WGWA-3.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 390542). Two method blanks were reported for sulfide (batches 390502 and 390812) One method blank was reported for TDS (batch 390551). Three method blanks were reported for alkalinity (batches 390904, 391320 and 391369). The wet chemistry parameters were not detected in the method blanks above the MDLs, with the following exception.

Alkalinity (5.54 mg/L) was detected in the method blank in batch 390904 at a concentration greater than the RL. Since alkalinity was either not detected or detected at concentrations greater than ten times the method blank concentration in the associated samples, no qualifications were applied to the data.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for anions, using sample Dup-1. Two sample set specific MS/MSD pairs were reported for sulfide, using samples WGWA-3 and WGWA-1. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample WGWA-5. Three sample set specific laboratory duplicates were reported for alkalinity, using samples WGWA-4 and WGWA-3. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs, with the following exception.

Sulfide (7.4 mg/L) was detected in EB-1 at a concentration greater than the RL. Since the sulfide concentration in the associated samples were J+ qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

3.8 Field Blank

One field blank, FB-1 was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs with the following exception.

Sulfide (6.7 mg/L) was detected in FB-1 at a concentration greater than the RL. Therefore, the sulfide concentrations greater than the RL and less than ten times the blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-1	Sulfide	5.8	NA	5.8	J+	3
EB-1	Sulfide	7.4	NA	7.4	J+	3
WGWA-2	Sulfide	5.4	NA	5.4	J+	3
WGWA-3	Sulfide	6.3	NA	6.3	J+	3
WGWA-4	Sulfide	8.9	NA	8.9	J+	3
WGWA-5	Sulfide	9.5	NA	9.5	J+	3
WGWA-6	Sulfide	5.3	NA	5.3	J+	3
Dup-1	Sulfide	5.0	NA	5.0	J+	3

mg/L-milligram per liter

NA-not applicable

3.9 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWA-3, with the following exceptions.

The RPD for sulfide in the field duplicate pair was greater than 20%. Therefore, the sulfide concentrations in the field duplicate pair were J qualified as estimated.

Sulfate was detected at an estimated concentration greater than the MDL and less than the RL in WGWA-3 and was not detected in Dup-1, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the sulfate concentration in WGWA-3 was J qualified as estimated and the non-detect sulfate result in WGWA-3 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-3	Sulfate	0.98	J	NC	0.98	J	7
Dup-1	Sulfate	0.76	U		0.76	UJ	7
WGWA-3	Sulfide	6.3	NA	23	6.3	J	7

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
Dup-1	Sulfide	5.0	NA		5.0	J	7

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

U-not detected at or above the MDL

NA-not applicable

NC-not calculable

RPD-relative percent difference

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-226 data (batch 554072). One method blank was reported for the radium-228 data (batch 554074). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

4.9 Field Blank

One field blank, FB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RER (2σ) < 3) was demonstrated between the field duplicate and the original sample, WGWA-3.

4.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

4.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 24, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
Laboratory Job IDs 180-134761-1 Revision 1 and 180-134761-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of sixteen water samples, two field duplicate samples, one equipment blank and two field blanks, collected 3-4 March 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
180-134761-1	WGWC-12
180-134763-2	WGWC-19
180-134763-5	WGWC-10
180-134763-6	WGWC-24
180-134763-7	WGWC-21
180-134763-9	WGWC-23
180-134763-10	WGWC-17
180-134763-11	Dup-3
180-134765-1	DUP-2
180-134765-2	WGWC-15
180-134765-3	WGWC-16

Laboratory ID	Client ID
180-134765-4	WGWA-7
180-134765-5	WGWC-13
180-134765-6	WGWC-14A
180-134765-7	WGWC-11
180-134765-8	FB-2
180-134765-9	WGWC-25
180-134765-10	WGWC-20
180-134765-11	FB-3
180-134766-1	EB-3
180-134766-2	WGWC-22

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

Laboratory report 180-134761-1 was revised on June 23, 2022, to correct laboratory flags. The revised report was identified as 180-134761-1 Revision 1.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas

where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 **Overall Assessment**

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 **Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 391233 and 391389). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

Iron was detected in the method blank in batch 391233 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated iron concentrations in the associated samples were U qualified as not detected at the RL and the iron concentrations in the associated samples greater than the RL and less than ten times the method blank concentration were J+ qualified as estimated with high biases.

Sodium and manganese were detected in the method blank in batch 391389 at estimated concentrations greater than the MDLs and less than the RLs. Since sodium and manganese were

either not detected or detected at concentrations greater than ten times the method blank concentrations in the associated samples, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-19	Iron	0.078	B	0.078	J+	3
WGWC-24	Iron	0.037	J B	0.050	U	3
WGWC-23	Iron	0.033	J B	0.050	U	3
WGWC-15	Iron	0.038	J B	0.050	U	3
WGWC-13	Iron	0.080	B	0.080	J+	3
WGWC-14A	Iron	0.23	B	0.23	J+	3
WGWC-11	Iron	0.084	B	0.084	J+	3
WGWC-25	Iron	0.13	B	0.13	J+	3
DUP-2	Iron	0.029	J B	0.050	U+	3
WGWC-16	Iron	0.050	B	0.050	J	3

mg/L-milligrams per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples WGWC-12 and EB-3. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 **Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 **Equipment Blank**

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Boron was detected in EB-2 at an estimated concentration greater than the MDL and less than the RL. Since the boron concentration in EB-2 was U qualified due to method blank contamination

and based on professional and technical judgment, no additional qualifications were applied to the data.

Arsenic, boron, cadmium, lead and thallium were detected in the EB-3 at estimated concentrations greater than the MDLs and less than the RLs. Since the boron concentration in the equipment blank was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the boron data. However, the estimated concentrations of arsenic, cadmium, lead and thallium in the associated samples were U qualified as not detected at the RLs.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-12	Arsenic	0.00037	J	0.0010	U	3
WGWC-12	Lead	0.00033	J	0.0010	U	3
Dup-3	Arsenic	0.00028	J	0.0010	U	3
WGWC-20	Arsenic	0.00078	J	0.0010	U	3
WGWC-22	Arsenic	0.00046	J	0.0010	U	3
WGWC-22	Cadmium	0.00025	J	0.0025	U	3
WGWC-22	Lead	0.00036	J	0.0010	U	3
WGWC-22	Thallium	0.00047	J	0.0010	U	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

1.7 Field Blank

Two field blanks, FB-2 and FB-3 were collected with the sample set. Metals were not detected in the field blanks above the MDLs, with the following exception.

Boron (0.065 mg/L) was detected in FB-3 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentration of boron in EB-3 was U qualified as not detected at the RL. In addition, based on professional and technical judgment the boron concentrations in WGWC-22 and WGWC-25 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EB-3	Boron	0.075	J	0.080	U	3
WGWC-22	Boron	0.41	NA	0.41	J+	3
WGWC-25	Boron	0.72	NA	0.72	J+	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

1.8 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively, with the following exceptions.

Iron was detected in WGWC-16 at a concentration greater than the RL and was detected in DUP-2 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the iron concentrations in WGWC-16 and DUP-2 were J qualified as estimated.

Arsenic was not detected in WGWC-17 and was detected in Dup-3 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Since the arsenic concentration in Dup-3 was U qualified as not detected due to equipment blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Cobalt was detected in WGWC-17 at an estimated concentration greater than the MDL and less than the RL and was not detected in Dup-3, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the cobalt concentration in WGWC-17 was J qualified as estimated and the non-detect cobalt result in Dup-3 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-16	Iron	0.050	B	NC	0.050	J	7
DUP-2	Iron	0.029	J B		0.029	J	7
WGWC-17	Cobalt	0.00026	J	NC	0.00026	J	7
Dup-3	Cobalt	0.00026	U		0.00026	UJ	7

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

U-not detected at or above the MDL

B-laboratory flag indicating analyte was detected in both the method blank and sample

NC-not calculable

RPD-relative percent difference

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 391840, 391862 and 391865). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample DUP-2. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

Two field blanks, FB-2 and FB-3 were collected with the sample set. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported for anions (batches 390804, 390909, 391414, 391628 and 392292). Two method blanks were reported for sulfide (batches 390812 and 390813) Three method blanks were reported for TDS (batches 390883, 391026 and 391040). Three method blanks were reported for alkalinity (batches 390904, 391320 and 391369). The wet chemistry parameters were not detected in the method blanks above the MDLs, with the following exception.

Alkalinity (5.54 mg/L) was detected in the method blank in batch 390904 at a concentration greater than the RL. Therefore, the concentrations of total alkalinity and bicarbonate alkalinity in the associated samples greater than the RL and less than ten times the method blank contamination were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-13	Bicarbonate Alkalinity as CaCO ₃	28	NA	28	J+	3
WGWC-13	Total Alkalinity as CaCO ₃ to pH 4.5	28	NA	28	J+	3
WGWC-14A	Bicarbonate Alkalinity as CaCO ₃	11	NA	11	J+	3
WGWC-14A	Total Alkalinity as CaCO ₃ to pH 4.5	11	NA	11	J+	3
WGWC-11	Bicarbonate Alkalinity as CaCO ₃	8.3	NA	8.3	J+	3
WGWC-11	Total Alkalinity as CaCO ₃ to pH 4.5	8.3	NA	8.3	J+	3

mg/L- milligram per liter

NA-not applicable

3.4 Matrix Spike/Matrix Spike Duplicate

Three sample set specific MS/MSD pairs were reported for anions, using samples DUP-2, WGWC-22 and WGWC-19. One sample set specific MS/MSD pair was reported for sulfide, using sample WGWC-11. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MSD recoveries of chloride and sulfate in the MS/MSD pair using sample DUP-2 were low and outside of the laboratory specified acceptance criteria. Therefore, the chloride and sulfate concentrations in sample DUP-2 were J- qualified as estimated with low biases.

The MS recovery of sulfate in the MS/MSD pair using sample WGWC-22 was low and outside of the laboratory specified acceptance criteria. Therefore, the sulfate concentration in sample WGWC-22 was J- qualified as estimated with a low bias.

The MSD recoveries of chloride and fluoride in the MS/MSD pair using sample WGWC-22 were high and outside of the laboratory specified acceptance criteria. Therefore, the chloride and fluoride concentrations in sample WGWC-22 were J+ qualified as estimated with high biases.

One or both the recoveries of chloride, fluoride and sulfate in the MS/MSD pair using sample WGWC-19 were high and outside of the laboratory specified acceptance criteria. Therefore, the chloride, fluoride and sulfate concentrations in sample WGWC-19 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-19	Chloride	3.2	F1	3.2	J+	4
WGWC-19	Sulfate	4.8	F1	4.8	J+	4
WGWC-19	Fluoride	0.40	F1	0.40	J+	4
DUP-2	Chloride	41	F1	41	J-	4
DUP-2	Sulfate	55	F1	55	J-	4
WGWC-22	Chloride	5.3	F1	5.3	J+	4
WGWC-22	Sulfate	150	F1	150	J-	4
WGWC-22	Fluoride	0.42	F1	0.42	J+	4

mg/L- milligram per liter

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample WGWC-21. Three sample set specific laboratory duplicates were reported for alkalinity, using samples WGWC-13, FB-2 and WGWC-17. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. The wet chemistry parameters were not detected in the equipment blanks above the MDLs, with the following exceptions.

Fluoride and sulfate were detected in EB-2 at estimated concentrations greater than the MDLs and less than the RLs. Since the fluoride concentration in EB-2 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the fluoride data. However, the sulfate concentrations in the associated samples greater than RL and less than ten times the equipment blank concentration were J+ qualified as estimated with high biases.

Sulfide (3.4 mg/L) was detected in EB-2 at a concentration greater than the RL. Since the sulfide concentration in the associated samples were J+ qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sulfate (1.2 mg/L) was detected in the EB-3 at a concentration greater than the RL. Therefore, the sulfate concentrations in the associated samples greater than RL and less than ten times the equipment blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-10	Sulfate	2.0	NA	2.0	J+	3
WGWC-11	Sulfate	2.3	NA	2.3	J+	3
WGWC-13	Sulfate	3.0	NA	3.0	J+	3
WGWC-14A	Sulfate	1.3	NA	1.3	J+	3
WGWC-19	Sulfate	4.8	NA	4.8	J+	3
WGWC-23	Sulfate	5.0	NA	5.0	J+	3
WGWC-17	Sulfate	3.6	NA	3.6	J+	3
Dup-3	Sulfate	3.4	NA	3.4	J+	3

mg/L- milligram per liter

NA-not applicable

3.8 Field Blank

Two field blanks, FB-2 and FB-3 were collected with the sample set. The wet chemistry parameters were not detected in the field blanks above the MDLs.

Fluoride was detected in FB-2 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations of fluoride in the associated samples were U qualified as not detected at the RL and the fluoride concentrations in associated samples greater

than the RL and less than ten times the field blank concentration were J+ qualified as estimated with high biases.

Sulfide (4.4 mg/L) was detected in FB-2 at a concentration greater than the RL. Therefore, the concentrations of sulfide in the associated samples greater than the RL and less than ten times the field blank concentration were J+ qualified as estimated with high biases.

Fluoride and sulfide were detected in FB-3 at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated concentrations of fluoride and sulfide in the associated samples were U qualified as not detected at the RLs and the fluoride and sulfide concentrations in associated samples greater than the RL and less than ten times the field blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-12	Fluoride	0.068	J	0.068	U	3
WGWC-19	Fluoride	0.40	F1	0.40	J+	3
WGWC-19	Sulfide	4.5	NA	4.5	J+	3
WGWC-10	Fluoride	0.067	J	0.10	U	3
WGWC-10	Sulfide	8.1	NA	8.1	J+	3
WGWC-24	Sulfide	4.3	NA	4.3	J+	3
WGWC-21	Sulfide	6.2	NA	6.2	J+	3
WGWC-23	Fluoride	0.045	J	0.045	U	3
WGWC-23	Sulfide	3.9	NA	3.9	J+	3
WGWC-17	Fluoride	0.060	J	0.060	U	3
WGWC-17	Sulfide	3.1	NA	3.1	J+	3
Dup-3	Fluoride	0.055	J	0.055	U	3
Dup-3	Sulfide	4.6	NA	4.6	J+	3
DUP-2	Fluoride	0.056	J	0.10	U	3
WGWC-15	Sulfide	3.0	NA	3.0	J+	3
WGWC-16	Fluoride	0.067	J	0.10	U	3
WGWA-7	Fluoride	0.038	J	0.10	U	3
WGWA-7	Sulfide	5.3	NA	5.3	J+	3
WGWC-13	Fluoride	0.21	NA	0.21	J+	3
WGWC-13	Sulfide	4.3	NA	4.3	J+	3
WGWC-14A	Fluoride	0.057	J	0.10	U	3
WGWC-14A	Sulfide	3.5	NA	3.5	J+	3
WGWC-11	Fluoride	0.055	J	0.10	U	3
WGWC-11	Sulfide	4.6	NA	4.6	J+	3
WGWC-25	Fluoride	0.038	J	0.038	U	3
WGWC-20	Sulfide	2.6	J	3.0	U	3
WGWC-22	Sulfide	5.1	NA	5.1	J+	3

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

NA-not applicable

3.9 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively, with the following exceptions.

The RPDs of sulfide and TDS in the field duplicate pair WGWC-17/Dup-3 were greater than 20%. Therefore, the sulfide and TDS concentrations in WGWC-17 and Dup-3 were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-17	Sulfide	3.1	NA	39	3.1	J	7
Dup-3	Sulfide	4.6	NA		4.6	J	7
WGWC-17	TDS	55	NA	55	55	J	7
Dup-3	TDS	97	NA		97	J	7

mg/L-milligram per liter

NA-not applicable

RPD-relative percent difference

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for the radium-226 data (batches 554529 and 554557). Three method blanks were reported for the radium-228 data (batches 554539, 558075 and 591208). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exceptions.

Radium-228 was detected in the method blank in batches 554539 (0.6702 pCi/L) and 558078 (0.3960 pCi/L) at concentrations greater than the MDCs. Therefore, the radium-228 concentrations in the associated samples greater than the MDCs and less than the method blank contamination were U qualified as not detected at the reported concentration. In addition, based on professional and technical judgment, the combined radium concentration in sample WGWC-1A was J+ qualified as estimated with a high bias and the combined radium concentration in sample WGWC-25 was U qualified as not detected at the reported concentration.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWC-12	Radium-228	0.413	NA	0.413	J+	3
WGWC-12	Combined Radium 226 + 228	0.408	NA	0.408	J+	3
WGWC-19	Radium-228	0.936	*	0.936	J+	3
WGWC-19	Combined Radium 226 + 228	0.909	NA	0.909	J+	3
WGWC-10	Radium-228	0.549	*	0.549	J+	3
WGWC-10	Combined Radium 226 + 228	0.587	NA	0.587	J+	3
DUP-2	Radium-228	0.568	*	0.568	J+	3
DUP-2	Combined Radium 226 + 228	0.697	NA	0.697	J+	3
WGWC-16	Radium-228	0.43	*	0.43	J+	3
WGWC-16	Combined Radium 226 + 228	0.573	NA	0.573	J+	3
WGWC-13	Radium-228	0.548	*	0.548	J+	3
WGWC-13	Combined Radium 226 + 228	0.621	NA	0.621	J+	3
WGWC-14A	Radium-228	0.582	*	0.582	J+	3
WGWC-14A	Combined Radium 226 + 228	0.956	NA	0.956	J+	3
WGWC-11	Radium-228	0.586	*	0.586	J+	3
WGWC-11	Combined Radium 226 + 228	0.622	NA	0.622	J+	3
FB-2	Radium-228	0.418	*	0.418	J+	3
WGWC-20	Radium-228	0.756	*	0.756	J+	3
WGWC-20	Combined Radium 226 + 228	0.925	NA	0.925	J+	3

pCi/L-picocuries per liter

*-laboratory flag indicating the LCS recovery was outside the laboratory limits

NA-not applicable

4.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSD pairs were not reported with the data.

4.5 **Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported for radium-226 and one LCS and two LCS/LCSD pairs were reported for radium-228. The recovery and RER results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of radium-228 in the LCS/LCSD pair in batch 554539 were high and outside of the laboratory specified acceptance criteria. Therefore, the radium-228 and combined radium concentrations in the associated samples were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWC-19	Radium-228	0.936	*	0.936	J+	5
WGWC-19	Combined Radium 226 + 228	0.909	NA	0.909	J+	5
WGWC-10	Radium-228	0.549	*	0.549	J+	5
WGWC-10	Combined Radium 226 + 228	0.587	NA	0.587	J+	5
DUP-2	Radium-228	0.568	*	0.568	J+	5
DUP-2	Combined Radium 226 + 228	0.697	NA	0.697	J+	5
WGWC-16	Radium-228	0.43	*	0.43	J+	5
WGWC-16	Combined Radium 226 + 228	0.573	NA	0.573	J+	5
WGWC-13	Radium-228	0.548	*	0.548	J+	5
WGWC-13	Combined Radium 226 + 228	0.621	NA	0.621	J+	5
WGWC-14A	Radium-228	0.582	*	0.582	J+	5
WGWC-14A	Combined Radium 226 + 228	0.956	NA	0.956	J+	5
WGWC-11	Radium-228	0.586	*	0.586	J+	5
WGWC-11	Combined Radium 226 + 228	0.622	NA	0.622	J+	5
FB-2	Radium-228	0.418	*	0.418	J+	5
WGWC-20	Radium-228	0.756	*	0.756	J+	5
WGWC-20	Combined Radium 226 + 228	0.925	NA	0.925	J+	5

pCi/L-picocuries per liter

*-laboratory flag indicating the LCS recovery was outside the laboratory limits

NA-not applicable

4.6 **Laboratory Duplicate**

Laboratory duplicates were not reported with the data.

4.7 **Tracers and Carriers**

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 **Equipment Blank**

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

4.9 **Field Blank**

Two field blanks, FB-2 and FB-3 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RER (2\sigma) < 3$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively.

4.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

The radium-228 result in sample Dup-3 was flagged G to indicate the MDC exceeded the requested reporting limit.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 21, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
Laboratory Job IDs 180-134881-1 and 180-134881-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three water samples and one equipment blank, collected 3 March 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
180-134881-1	WGWA-18
180-134881-2	WGWC-8

Laboratory ID	Client ID
180-134881-3	WGWC-9
180-134881-4	EB-2

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

The laboratory noted the sample container for sample WGWA-18 was noted as GWA-18 on the sample container. The sample was logged in per the chain of custody (COC).

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample

- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 391645). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Boron was detected in the method blank at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated boron concentration in the associated sample was U qualified as not detected at the RL and the boron concentrations in the associated samples greater than the RL and less than ten times the method blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
EB-2	Boron	0.066	J B	0.080	U	3
WGWA-18	Boron	0.10	B	0.10	J+	3
WGWC-9	Boron	0.62	B	0.62	J+	3

mg/L-milligrams per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Boron was detected in the EB-2 at an estimated concentration greater than the MDL and less than the RL. Since the boron concentration in the EB-2 was U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-1. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

Field duplicates were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 **Holding Time**

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 392235). Mercury was not detected in the method blank above the MDL.

2.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs.

2.7 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-1. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

Field duplicates were not collected with the sample set.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank

- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 391628). One method blank was reported for sulfide (batch 391154) One method blank was reported for TDS (batch 391178). One method blank was reported for alkalinity (batch 391369). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for anions, using samples WGWA-18. One sample set specific MS/MSD pair was reported for sulfide, using sample WGWA-18. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recoveries of chloride, fluoride and sulfate in the MS/MSD pair using sample WGWA-18 were high and outside of the laboratory specified acceptance criteria. Therefore, the chloride and sulfate concentrations in sample WGWA-18 were J+ qualified as estimated with high biases. Since the fluoride concentration in sample WGWA-18 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the fluoride data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-18	Chloride	2.0	F1	2.0	J+	4
WGWA-18	Sulfate	8.5	F1	8.5	J+	4

mg/L- milligram per liter

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for alkalinity, using samples WGWC-8 and EB-2. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Wet chemistry parameters were not detected in the equipment blank above the MDLs, with the following exceptions.

Fluoride and sulfate were detected in EB-2 at estimated concentrations greater than the MDLs and less than the RLs. Since the fluoride concentration in EB-2 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the fluoride data. Since the sulfate concentrations in the associated samples were greater than ten times the equipment blank concentration and based on professional and technical judgment, no qualifications were applied to the sulfate data.

Sulfide (3.4 mg/L) was detected in EB-2 at a concentration greater than the RL. Since the sulfide concentration in the associated samples were J+ qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

3.8 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-1. The wet chemistry parameters were not detected in the field blank above the MDLs.

Fluoride was detected in FB-2 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations of fluoride in the associated samples were U qualified as not detected at the RL and the fluoride concentration in associated sample greater than the RL and less than ten times the field blank concentration was J+ qualified as estimated with high biases.

Sulfide (4.4 mg/L) was detected in FB-2 at a concentration greater than the RL. Therefore, the estimated sulfide concentrations in the associated samples were U qualified as not detected at the RL and the concentration of sulfide in the associated sample greater than the RL and less than ten times the field blank concentration was J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EB-2	Fluoride	0.043	J	0.10	U	3
EB-2	Sulfide	3.4	NA	3.4	J+	3
WGWA-18	Fluoride	0.078	J F1	0.10	U	3
WGWA-18	Sulfide	2.4	J	3.0	U	3
WGWC-8	Fluoride	0.19	NA	0.19	J+	3
WGWC-9	Sulfide	2.6	J	3.0	U	3

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

NA-not applicable

3.9 Field Duplicate

Field duplicates were not collected with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-226 data (batch 555104). One method blank was reported for the radium-228 data (batch 555108). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

4.9 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-2. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

Field duplicates were not collected with the sample set.

4.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

The radium-228 result in sample Dup-3 was flagged G to indicate the MDC exceeded the requested reporting limit.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY**

Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

LEVEL 2A LABORATORY DATA VALIDATIONS

Wansley Ash Pond

Risk Surface Water Sample Analytical

March 2022

Georgia Power Company – Wansley Ash Pond

Quality Control Review of Analytical Data – March 2022

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Pittsburgh for surface water samples collected at Wansley Ash Pond March 4, 2022. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample location, analytical parameter, QC samples, sampling date, and laboratory sample delivery group (SDG) designation is summarized in Table 1 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the supplemental surface water samples were analyzed for select assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. The test method included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B).

Data were reviewed in accordance with the USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, accuracy (laboratory control samples), precision (duplicate recoveries), and blank contamination (equipment and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the resample collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this supplemental event met the QC criteria established in the analytical method and data validation guidelines. No sample qualifications were required.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Wansley Ash Pond sampled March 4, 2022 in accordance with the analytical method, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Wansley Ash Pond

Sample Summary Table – March 2022

						Analyses
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)
134767	WCR(+0.1)	3/4/2022	180-134767-1	SW		X
134767	WCR(+1.9)	3/4/2022	180-134767-2	SW		X
134767	WCR(-0.6)	3/4/2022	180-134767-3	SW		X
134767	EQUIPMENT BLANK	3/4/2022	180-134767-4	WQ	EB	X
134767	DUP	3/4/2022	180-134767-5	SW	FD [WCR(+1.9)]	X

Abbreviations:

- EB – Equipment Blank
- FD – Field Duplicate
- SDG – Sample Delivery Group
- SW – Surface Water
- QC – Quality Control
- WQ – Water Quality Control

Memorandum

Date: June 30, 2022
To: Adria Reimer
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 180-139452-1 Revision 1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six water samples, one field duplicate sample, one equipment blank and one field blank, collected 6-7 June 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

The samples were analyzed at Eurofins Edison; Edison, New Jersey, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-139452-1	Dup-1
180-139452-2	WGWC-21
180-139452-3	EB-1
180-139452-4	WGWC-20
180-139452-5	WGWC-23

Laboratory ID	Client ID
180-139452-6	WGWC-22
180-139452-7	WGWC-24
180-139452-8	WGWC-25
180-139452-9	FB-1

The samples were received at 2.8 degrees Celsius (°C) and 4.4°C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

Radium 226 and 228 (SW-846 9315/9320) analysis was requested on the chain of custody (COC) for all samples. However, this data was not included in the report.

The relinquished by signature, date and time were not documented for the second sample transfer on the COC for the transfer to Eurofins Pittsburgh, Pennsylvania.

The laboratory report was revised on June 29, 2022, to correct samples that were reported incorrectly in the original report. WGWC-22 and WGWC-23 were switched in the laboratory report. The revised report was identified as 180-139452-1 Revision 1.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank

- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 401922). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Antimony was detected in the method blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated antimony concentrations in the associated samples greater than the MDL and less than the RL were U qualified as estimated not detected at the RL. No qualifications were applied to the nondetect results for antimony in the associated samples.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-23	Antimony	0.0013	J B	0.0020	U	3
WGWC-22	Antimony	0.00054	J B	0.0020	U	3

mg/L-milligrams per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using

sample WGWC-23. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs.

1.7 Field Blank

One field blank, FB-1, was collected with the sample set. Metals were not detected in the field blanks above the MDLs, with the following exceptions.

Barium (0.023 mg/L) was detected in FB-1 at a concentration greater than the RL. Therefore, the estimated concentrations of barium in WGWC-21 and WGWC-23 were U qualified as not detected at the RL. In addition, based on professional and technical judgment the barium concentrations in WGWC-22 and WGWC-24 were J+ qualified as estimated with high biases.

Boron (0.074 mg/L) was detected in FB-1 at an estimated concentration greater than the MDL and less than the RL. Therefore, based on professional and technical judgment the boron concentrations in WGWC-21, WGWC-22 and WGWC-24 were J+ qualified as estimated with high biases.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-21	Barium	0.0079	J	0.010	U	3
WGWC-23	Barium	0.0097	J	0.010	U	3
WGWC-22	Barium	0.025	NA	0.025	J+	3
WGWC-24	Barium	0.032	NA	0.032	J+	3
WGWC-21	Boron	0.13	NA	0.13	J+	3
WGWC-22	Boron	0.39	NA	0.39	J+	3
WGWC-24	Boron	0.64	NA	0.64	J+	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

1.8 Field Duplicate

One field duplicate sample, DUP-1, was collected with the sample set. Acceptable precision (RPD $\leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, WGWC-25.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 401830). Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample WGWC-23. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

One field blank, FB-1, was collected with the sample set. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

One field duplicate sample, DUP-1, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, WGWC-25.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 850067). Two method blanks were reported for TDS (batches 401646 and 401647). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCS duplicate (LCSD) pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample WGWC-25. The RPD result was within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Field Blank

One field blank, FB-1, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDL.

3.9 Field Duplicate

One field duplicate sample, DUP-1, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, WGWC-25.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: July 13, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
TestAmerica Laboratory Job ID 180-139452-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six aqueous samples, one field duplicate sample, one equipment blank and one field blank, collected from 6-7 June 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins TestAmerica St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and

- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-139452-1	Dup-1
180-139452-2	WGWC-21
180-139452-3	EB-1
180-139452-4	WGWC-20
180-139452-5	WGWC-23

Laboratory ID	Client ID
180-139452-6	WGWC-22
180-139452-7	WGWC-24
180-139452-8	WGWC-25
180-139452-9	FB-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The non-radiochemistry data was reported in laboratory report 180-139452-1.

The received by signature, date and time were not documented for the second sample transfer on the chain of custody (COC).

A collection time was not documented on the COC for the field duplicate, Dup-1. The field duplicate was logged in with the collection time of 00:00.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity

✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 570286). Radium-228 was not detected in the method blank above the minimum detectable concentrations (MDCs).

One method blank was reported for the radium-226 data (batch 570281). Radium-226 (0.0936 pCi/L) was detected in the method blank at a concentration greater than the MDC. Therefore, the radium-226 concentrations in the associated samples less than ten times the method blank concentration were J+ qualified as estimated with high biases. Also, based on professional and technical judgment, the combined radium-226 + radium-228 concentrations in samples WGWC-20, WGWC-23, WGWC-24 and WGWC-25 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
Dup-1	Radium-226	0.266	NA	0.266	J+	3
WGWC-20	Radium-226	0.195	NA	0.195	J+	3
WGWC-20	Combined Radium 226 + 228	0.670	NA	0.670	J+	3
WGWC-23	Radium-226	0.154	NA	0.154	J+	3
WGWC-23	Combined Radium 226 + 228	1.45	NA	1.45	J+	3
WGWC-24	Radium-226	0.229	NA	0.229	J+	3
WGWC-24	Combined Radium 226 + 228	0.845	NA	0.845	J+	3
WGWC-25	Radium-226	0.234	NA	0.234	J+	3
WGWC-25	Combined Radium 226 + 228	0.500	NA	0.500	J+	3

pCi/L-picocuries per liter

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.7 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

1.8 Field Blank

One field blank, FB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.9 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision [relative error ratio (RER) $(2\sigma) < 3$] was demonstrated between the field duplicate and the original sample, WGWC-25.

1.10 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: October 20, 2022
To: Taylor Payne
From: Amani Royce
CC: J. Caprio, K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-219893-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five water samples, three field duplicate samples, three equipment blanks, and three field blanks, collected 15-19 August 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

The samples were subcontracted to Eurofins Pittsburg, Pennsylvania and analyzed for the following analytical test:

- Metals by EPA Methods 3005A/6020B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-219893-1	WGWA-1
680-219893-2	WGWA-2
680-219893-3	FB-01
680-219893-4	WGWA-7
680-219893-5	WGWA-18
680-219893-6	WGWA-5
680-219893-7	EB-04
680-219893-8	WGWA-6
680-219893-9	WGWA-4
680-219893-10	WGWA-3
680-219893-11	WGWC-17
680-219893-12	FD-01
680-219893-13	WGWC-21
680-219968-1	WGWC-11
680-219968-2	EB-05
680-219968-3	WGWC-9
680-219968-4	WGWC-16

Laboratory IDs	Client IDs
680-219968-5	WGWC-15
680-219968-6	WGWC-25
680-219968-7	WGWC-23
680-219968-8	WGWC-19
680-219968-9	WGWC-12
680-219968-10	FB-03
680-219968-11	FD-02
680-219968-12	FB-02
680-219968-13	WGWC-8
680-219968-14	WGWC-20
680-219968-15	WGWC-13
680-219968-16	WGWC-24
680-219968-17	FD-03
680-219968-18	EB-06
680-219968-19	WGWC-10
680-219968-20	WGWC-14A
680-219968-21	WGWC-22

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Radiochemistry analyses were requested on the chain of custody (COC), but per client email, the radiochemistry analyses will be reported separately.

Page two of the COC received on 18 August 2022 was missing the first received time.

The sample collection times were not listed on the COC for the field duplicate samples, FD-01, FD-02, and FD-03. The laboratory assigned collection times of 0:00.

Incorrect error corrections were observed on the COC forms, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight method blanks were reported (batches 410763, 410974, 411448, 736729, 736973, 736978, 737023, and 737994). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

Antimony was detected in the method blank in batch 410763 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated antimony

concentrations in samples WGWA-4 and WGWC-21 were U qualified as not detected at the RL. Since antimony was not detected in the samples, WGWA-1, WGWA-2, FB-01, WGWA-7, WGWA-18, WGWA-5, EB-04, WGWA-6, WGWA-3, WGWC-17, and FD-01, no qualifications were applied to the data.

Lithium was detected in the method blank in batch 411448 at an estimated concentration greater than the MDL and less than the RL. Therefore, the lithium concentration in sample WGWC-22 was J+ qualified as estimated with high bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWA-4	Antimony	0.00051	J B	0.0020	U	3
WGWC-21	Antimony	0.00055	J B	0.0020	U	3
WGWC-22	Lithium	0.010	B	0.010	J+	3

mg/L- Milligram per Liter

B- Laboratory flag indicating the compound was found in the blank and sample.

J - Laboratory flag indicating the result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value.

* Validation qualifiers are defined in Attachment 1 at the end of this report

** Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample set specific MS/MSD pairs were reported, using samples WGWA-1, WGWC-23, WGWA-2, and EB-06. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

MS/MSD pairs were not reported in batches 411448, 736973, 737023, and 737994.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Three equipment blanks, EB-04, EB-05, and EB-06, were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Three field blanks, FB-01, FB-02, and FB-03, were collected with the sample set. Metals were not detected in the field blanks above the MDLs.

1.8 Field Duplicate

Three field duplicate samples, FD-01, FD-02, and FD-03, were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original samples, WGWA-3, WGWC-16, and WGWC-24, respectively, with the following exceptions.

Lithium was not detected in sample WGWA-3 and was detected at an estimated concentration greater than the MDL and less than the RL in field duplicate FD-01, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the non-detect lithium result in sample WGWA-3 was UJ qualified as estimated less than the MDL and the estimated lithium concentration in field duplicate FD-01 was J qualified as estimated.

Arsenic was not detected in field duplicate FD-03 and was detected at an estimated concentration greater than the MDL and less than the RL in sample WGWC-24, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the non-detect arsenic result in field duplicate FD-03 was UJ qualified as estimated less than the MDL and the estimated arsenic concentration in sample WGWC-24 was J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
FD-01	Lithium	0.00092	J	NC	0.00092	J	7
WGWA-3	Lithium	0.00083	U		0.00083	UJ	7
FD-03	Arsenic	0.00028	U	NC	0.00028	UJ	7
WGWC-24	Arsenic	0.00028	J		0.00028	J	7

mg/L- Milligram per Liter

J - Laboratory flag indicating the result is less than the RL, but greater than or equal to the MDL and the concentration is an approximate value.

U - The analyte was analyzed for, but was not detected at or above the reported sample quantitation limit.

NC-not calculable

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batch 737002, 737421, and 737617). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

A sample set specific MS/MSD pair was reported, using sample WGWC-11. The recovery and RPD results were within the laboratory specified acceptance criteria.

MS/MSD pairs were not reported in batches 737002 and 737617.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Three equipment blanks, EB-04, EB-05, and EB-06, were collected with the sample set. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

Three field blanks, FB-01, FB-02, and FB-03, were collected with the sample set. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

Three field duplicate samples, FD-01, FD-02, and FD-03, were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-3, WGWC-16, and WGWC-24, respectively.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported for anions (batches 737667, 737668, 737765, and 737908). Four method blanks were reported for TDS (batches 736898, 737144, 737162, and 737513). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported for anions, using samples WGWA-2 and FD-01. The recovery and RPD results were within the laboratory specified acceptance criteria.

MS/MSD pairs were not reported in batches 737667, 737765, 737908, 736898, 737144, 737162, and 737513. LCS/LCS duplicate (LCSD) pairs were used to assess precision and accuracy.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCS/LCSD pairs were reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for TDS, using samples WGWA-5, WGWC-21, WGWC-24, and FD-03. The RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPDs of TDS for the laboratory duplicates using samples WGWA-5 and WGWC-24 were high and outside the laboratory specified acceptance criteria. Since TDS was detected less than five times the RL, the difference between the concentrations were less than the RL, and based on professional and technical judgement, no qualifications were applied to the data.

3.7 Equipment Blank

Three equipment blanks, EB-04, EB-05, and EB-06, were collected with the sample set. The wet chemistry parameters were not detected in the equipment blanks above the MDLs.

3.8 Field Blank

Three field blanks, FB-01, FB-02, and FB-03, were collected with the sample set. The wet chemistry parameters were not detected in the field blanks above the MDLs.

3.9 Field Duplicate

Three field duplicate samples, FD-01, FD-02, and FD-03, were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-3, WGWC-16, and WGWC-24, respectively.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: October 24, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 180-219893-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five aqueous samples, three field duplicate samples, three equipment blanks and three field blanks, collected from 15-19 August 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory report:

Laboratory IDs	Client IDs
680-219893-1	WGWA-1
680-219893-2	WGWA-2
680-219893-3	FB-01
680-219893-4	WGWA-7
680-219893-5	WGWA-18
680-219893-6	WGWA-5
680-219893-7	EB-04
680-219893-8	WGWA-6
680-219893-9	WGWA-4
680-219893-10	WGWA-3
680-219893-11	WGWC-17
680-219893-12	FD-01
680-219893-13	WGWC-21
680-219968-1	WGWC-11
680-219968-2	EB-05
680-219968-3	WGWC-9
680-219968-4	WGWC-16

Laboratory IDs	Client IDs
680-219968-5	WGWC-15
680-219968-6	WGWC-25
680-219968-7	WGWC-23
680-219968-8	WGWC-19
680-219968-9	WGWC-12
680-219968-10	FB-03
680-219968-11	FD-02
680-219968-12	FB-02
680-219968-13	WGWC-8
680-219968-14	WGWC-20
680-219968-15	WGWC-13
680-219968-16	WGWC-24
680-219968-17	FD-03
680-219968-18	EB-06
680-219968-19	WGWC-10
680-219968-20	WGWC-14A
680-219968-21	WGWC-22

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The non-radiochemistry data were reported in laboratory report 180-219893-1.

Page two of the chain of custody (COC) received on 18 August 2022 was missing the first received time.

The sample collection times were not listed on the COC for the field duplicate samples, FD-01, FD-02, and FD-03. The laboratory assigned collection times of 0:00.

Incorrect error corrections were observed on the COC forms, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-228 data (batches 579086, 580463 and 583204). Radium-228 was not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exception.

Radium-228 (0.4927 pCi/L) was detected in the method blank in batch 579086 at a concentration greater than the MDC. Therefore, based on professional and technical judgment, the radium-228 and combined radium concentrations in samples WGWA-1, WGWA-18, WGWA-2, WGWA-4, WGWA-5, WGWA-7 and WGWC-8 were J+ qualified as estimated with high biases.

Three method blanks were reported for the radium-226 data (batches 579082, 580457 and 580464). Radium-226 was not detected in the method blanks above the MDCs.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WGWA-1	Radium-228	0.494	NA	0.494	J+	3
WGWA-1	Combined Radium 226 + 228	0.559	NA	0.559	J+	3
WGWA-18	Radium-228	1.09	NA	1.09	J+	3
WGWA-18	Combined Radium 226 + 228	1.18	NA	1.18	J+	3
WGWA-2	Radium-228	0.698	NA	0.698	J+	3
WGWA-2	Combined Radium 226 + 228	0.725	NA	0.725	J+	3
WGWA-4	Radium-228	1.41	NA	1.41	J+	3
WGWA-4	Combined Radium 226 + 228	2.02	NA	2.02	J+	3
WGWA-5	Radium-228	1.94	NA	1.94	J+	3
WGWA-5	Combined Radium 226 + 228	2.38	NA	2.38	J+	3
WGWA-7	Radium-228	0.620	NA	0.620	J+	3
WGWA-7	Combined Radium 226 + 228	0.653	NA	0.653	J+	3
WGWC-8	Radium-228	2.02	NA	2.02	J+	3
WGWC-8	Combined Radium 226 + 228	2.40	NA	2.40	J+	3

pCi/L-picocuries per liter

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSD pairs were not reported with the data.

1.5 **Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported for radium-226 and two LCSs and one LCS/LCSD pair were reported for radium-228. The recovery and relative error ratio (RER) results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of radium-228 in the LCS in batch 579086 was high and outside of the laboratory specified acceptance criteria. Therefore, based on professional and technical judgment, the radium-228 and combined radium concentrations in samples FD-01, WGWA-1, WGWA-18, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, WGWC-17 and WGWC-21 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result	Validation Qualifier	Reason Code
FD-01	Radium-228	0.631	NA	0.631	J+	5
FD-01	Combined Radium 226 + 228	0.69	NA	0.69	J+	5
WGWA-1	Radium-228	0.494	NA	0.494	J+	5
WGWA-1	Combined Radium 226 + 228	0.559	NA	0.559	J+	5
WGWA-18	Radium-228	1.09	NA	1.09	J+	5
WGWA-18	Combined Radium 226 + 228	1.18	NA	1.18	J+	5
WGWA-2	Radium-228	0.698	NA	0.698	J+	5
WGWA-2	Combined Radium 226 + 228	0.725	NA	0.725	J+	5
WGWA-3	Radium-228	0.611	NA	0.611	J+	5
WGWA-3	Combined Radium 226 + 228	0.628	NA	0.628	J+	5
WGWA-4	Radium-228	1.41	NA	1.41	J+	5
WGWA-4	Combined Radium 226 + 228	2.02	NA	2.02	J+	5
WGWA-5	Radium-228	1.94	NA	1.94	J+	5
WGWA-5	Combined Radium 226 + 228	2.38	NA	2.38	J+	5
WGWA-6	Radium-228	6.24	NA	6.24	J+	5
WGWA-6	Combined Radium 226 + 228	9.58	NA	9.58	J+	5
WGWA-7	Radium-228	0.620	NA	0.62	J+	5
WGWA-7	Combined Radium 226 + 228	0.653	NA	0.653	J+	5
WGWC-17	Radium-228	0.627	NA	0.627	J+	5
WGWC-17	Combined Radium 226 + 228	0.668	NA	0.668	J+	5
WGWC-21	Radium-228	1.12	NA	1.12	J+	5
WGWC-21	Combined Radium 226 + 228	1.35	NA	1.35	J+	5

pCi/L-picocuries per liter

NA-not applicable

1.6 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.7 Equipment Blank

Three equipment blanks, EB-4, EB-5 and EB6 were collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

1.8 Field Blank

Three field blanks, FB-1, FB-2 and FB-03 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks above the MDCs, with the following exception.

Radium-226 (0.094 pCi/L) was detected in FB-02 at a concentration greater than the MDC. Therefore, based on professional and technical judgment, the radium-226 and combined radium concentrations in samples WGWA-4, WGWC-11, WGWC-21 and WGWC-8 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWA-4	Radium-226	0.602	NA	0.602	J+	3
WGWA-4	Combined Radium 226 + 228	2.02	NA	2.02	J+	3
WGWC-11	Radium-226	0.108	NA	0.108	J+	3
WGWC-11	Combined Radium 226 + 228	0.500	NA	0.500	J+	3
WGWC-21	Radium-226	0.229	NA	0.229	J+	3
WGWC-21	Combined Radium 226 + 228	1.35	NA	1.35	J+	3
WGWC-8	Radium-226	0.387	NA	0.387	J+	3
WGWC-8	Combined Radium 226 + 228	2.40	NA	2.40	J+	3

pCi/L-picocuries per liter

NA-not applicable

1.9 Field Duplicate

Three field duplicate samples, FD-01, FD-02, and FD-03, were collected with the sample set. Acceptable precision [relative error ratio (RER) (2σ) < 3] was demonstrated between the field duplicates and the original samples, WGWA-3, WGWC-16, and WGWC-24, respectively.

1.10 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

The MDC for radium-228 for sample WGWC-22 was greater than the requested reporting limit (RL).

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Wansley

Risk Evaluation

August 2022

Georgia Power Company – Wansley

Quality Control Review of Analytical Data – August 2022

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Pittsburgh and Savannah for surface water samples collected at Plant Wansley August 18, 2022. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, sampling date, and laboratory sample delivery group (SDG) designation is summarized in Table 1 of this Appendix. Work order 680-219983-1 was revised for the lab to address an incorrect reporting limit (RL) and missing QC information.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the risk evaluation surface water samples were analyzed for select assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. The test method included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B).

Data were reviewed in accordance with the USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were not applicable to this sampling event.

Accuracy: Laboratory goals for accuracy were met, except for beryllium on several samples due to high continuing calibration verification (CCV) results on the sample, the associated method blank (MB), the associated matrix spike (MS), and/or the associated matrix spike duplicate (MSD) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Certain beryllium results on work order 680-219983-1 were qualified as non-detect (ND) due to the analyte being recovered above the acceptance range in the CCVs for the sample, the associated MB, and/or the associated MS/MSD. Reference Table 2 for specific samples.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Plant Wansley sampled August 18, 2022 in accordance with the analytical method, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Wansley
 Sample Summary Table – August 2022

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses
						Metals (6020B)
219983	WCR(+0.1)	8/18/2022	680-219983-1	WS		X
219983	WCR(+1.9)	8/18/2022	680-219983-2	WS		X
219983	WCR(-0.6)	8/18/2022	680-219983-3	WS		X

Abbreviations:
 SDG – Sample Delivery Group
 WS – Surface Water
 QC – Quality Control

TABLE 2
 Georgia Power Company – Wansley
 Qualifier Summary Table – August 2022

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
219983	WCR(+0.1)	Beryllium			ND	High CCV in sample and MB
219983	WCR(+1.9)	Beryllium			ND	High CCV in sample and MB
219983	WCR(-0.6)	Beryllium			ND	High CCV in sample, MB, and MS/MSD

Abbreviations:

CCV – Continuing Calibration Verification
 MB – Laboratory Method Blank
 MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

Memorandum

Date: 21 November 2022
To: Adria Reimer
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 680-223748-1 Revision 1**

SITE: Plant Wansley

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two water samples collected 19 October 2022, as part of the Plant Wansley sampling event.

The samples were analyzed at Eurofins Savannah, GA, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical test:

- Metals by US EPA Methods 3005A/6020B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
680-223748-1	WGWC-26D

Laboratory ID	Client ID
680-223748-2	WGWC-27

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Radiochemistry analyses were requested on the chain of custody (COC), but per client email, the radiochemistry analyses will be reported separately.

The field pH data included in the laboratory report were not validated.

The laboratory report was revised on November 18, 2022, to add missing boron QC results to the metals data.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 746645, 746680 and 416851). Metals were not detected in the method blanks at or above the method detection limits (MDLs), with the following exception.

Boron was detected in the method blank in batch 41681 at an estimated concentration greater than the MDL and less than the RL. Therefore, based on professional and technical judgment the boron concentration in sample WGWC-27 was J+ qualified as estimated with a high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-27	Boron	0.098	B	0.098	J+	3

mg/L-milligrams per liter

B-laboratory flag defined as Compound was found in the blank and sample.

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three batch MS/MSD pairs were reported for metals. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Equipment blanks were not reported with the sample set.

1.7 Field Blank

Field blanks were not reported with the sample set.

1.8 Field Duplicate

Field duplicates were not reported with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank

- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 **Holding Time**

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 746718). Mercury was not detected in the method blank above the MDL.

2.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 **Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 **Equipment Blank**

Equipment blanks were not reported with the sample set.

2.7 **Field Blank**

Field blanks were not reported with the sample set.

2.8 Field Duplicate

Field duplicates were not reported with the sample set.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 750035). One method blank was reported for TDS (batch 746883). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCS/LCS duplicate (LCSD) pairs were reported for each analytical analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample WGWC-26D. The RPD result was within the laboratory specified acceptance criteria.

3.7 Equipment Blank

Equipment blanks were not reported with the sample set.

3.8 Field Blank

Field blanks were not reported with the sample set.

3.9 Field Duplicate

Field duplicates were not reported with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: December 23, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 180-223748-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two aqueous samples collected 19 October 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory report:

Laboratory IDs	Client IDs
680-223748-1	WGWC-26D

Laboratory IDs	Client IDs
680-223748-2	WGWC-27

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The non-radiochemistry data were reported in laboratory report 180-223748-1.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 589067). Radium-228 was not detected in the method blank above the minimum detectable concentration (MDC). One method blank was reported for the radium-226 data (batch 589027). Radium-226 was not detected in the method blank above the MDC.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Batch MS/MSD pairs were reported for radium-226 and radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.7 Equipment Blank

Equipment blanks were not shipped with the sample set.

1.8 Field Blank

Field blanks were not shipped with the sample set.

1.9 Field Duplicate

Field duplicates were not shipped with the sample set.

1.10 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

APPENDIX C2

Field Data Sheets

Purge Logs

Low-Flow Test Report:

Test Date / Time: 1/12/2022 12:16:09 PM

Project: Plant Wansley - Ash Pond

Operator Name: H Auld

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.85 ft Total Depth: 42.85 ft Initial Depth to Water: 30.85 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38.85 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1245 on 1-12-22. Sunny, 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
1/12/2022 12:16 PM	00:00	6.56 pH	15.66 °C	1,511.8 µS/cm	3.78 mg/L	5.00 NTU	186.6 mV	30.85 ft	150.00 ml/min
1/12/2022 12:17 PM	01:00	6.30 pH	16.56 °C	1,482.8 µS/cm	3.03 mg/L	5.00 NTU	210.2 mV	30.85 ft	150.00 ml/min
1/12/2022 12:17 PM	01:22	6.21 pH	16.82 °C	1,477.4 µS/cm	2.92 mg/L	5.00 NTU	208.0 mV	30.85 ft	150.00 ml/min
1/12/2022 12:22 PM	06:22	5.46 pH	17.80 °C	1,457.6 µS/cm	2.69 mg/L	2.95 NTU	184.6 mV	31.00 ft	150.00 ml/min
1/12/2022 12:27 PM	11:22	5.30 pH	17.94 °C	1,454.1 µS/cm	2.64 mg/L	1.30 NTU	250.2 mV	31.00 ft	150.00 ml/min
1/12/2022 12:32 PM	16:22	5.24 pH	17.85 °C	1,458.3 µS/cm	2.63 mg/L	0.70 NTU	263.9 mV	31.10 ft	150.00 ml/min
1/12/2022 12:37 PM	21:22	5.21 pH	17.81 °C	1,440.3 µS/cm	2.61 mg/L	0.50 NTU	206.1 mV	31.10 ft	150.00 ml/min
1/12/2022 12:42 PM	26:22	5.19 pH	17.76 °C	1,462.7 µS/cm	2.63 mg/L	0.47 NTU	277.8 mV	31.10 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 11:25:06 AM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.73 ft Total Depth: 71.73 ft Initial Depth to Water: 50.51 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 59.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, second log has ORP

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 0.3	
1/11/2022 11:25 AM	00:00	5.88 pH	12.30 °C	35.49 µS/cm	10.44 mg/L	2.21 NTU	50.51 ft	100.00 ml/min
1/11/2022 11:30 AM	05:00	6.32 pH	9.51 °C	678.71 µS/cm	9.41 mg/L	1.16 NTU	50.80 ft	100.00 ml/min
1/11/2022 11:35 AM	10:00	6.45 pH	8.80 °C	689.82 µS/cm	5.07 mg/L	1.95 NTU	51.20 ft	100.00 ml/min
1/11/2022 11:40 AM	15:00	6.52 pH	9.56 °C	895.79 µS/cm	3.03 mg/L	1.51 NTU	51.60 ft	100.00 ml/min
1/11/2022 11:45 AM	20:00	6.61 pH	10.40 °C	973.20 µS/cm	2.02 mg/L	1.58 NTU	51.80 ft	100.00 ml/min
1/11/2022 11:50 AM	25:00	6.66 pH	10.78 °C	1,021.4 µS/cm	1.56 mg/L	1.99 NTU	52.30 ft	100.00 ml/min
1/11/2022 11:55 AM	30:00	6.72 pH	11.32 °C	1,038.1 µS/cm	1.25 mg/L	1.80 NTU	52.70 ft	100.00 ml/min
1/11/2022 12:00 PM	35:00	6.74 pH	11.52 °C	1,044.6 µS/cm	1.10 mg/L	1.62 NTU	53.00 ft	100.00 ml/min
1/11/2022 12:05 PM	40:00	6.76 pH	11.75 °C	1,032.1 µS/cm	0.99 mg/L	1.49 NTU	53.40 ft	100.00 ml/min
1/11/2022 12:10 PM	45:00	6.77 pH	11.79 °C	1,000.6 µS/cm	0.91 mg/L	1.54 NTU	53.70 ft	100.00 ml/min
1/11/2022 12:15 PM	50:00	6.77 pH	11.93 °C	956.08 µS/cm	0.83 mg/L	1.79 NTU	54.00 ft	100.00 ml/min
1/11/2022 12:20 PM	55:00	6.74 pH	12.16 °C	895.26 µS/cm	0.83 mg/L	2.05 NTU	54.30 ft	100.00 ml/min
1/11/2022 12:25 PM	01:00:00	6.73 pH	12.31 °C	850.64 µS/cm	0.81 mg/L	1.28 NTU	54.60 ft	100.00 ml/min
1/11/2022 12:30 PM	01:05:00	6.71 pH	12.39 °C	819.33 µS/cm	0.80 mg/L	1.11 NTU	54.90 ft	100.00 ml/min
1/11/2022 12:35 PM	01:10:00	6.70 pH	12.30 °C	804.41 µS/cm	0.80 mg/L	1.05 NTU	55.30 ft	100.00 ml/min

1/11/2022 12:40 PM	01:15:00	6.69 pH	12.33 °C	794.02 µS/cm	0.81 mg/L	1.74 NTU	55.50 ft	100.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 12:46:26 PM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.73 ft Total Depth: 71.73 ft Initial Depth to Water: 50.51 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 1000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Final log, sunny, sample time:1257; 8.5 L- total purge

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
1/11/2022 12:46 PM	00:00	6.69 pH	12.30 °C	787.76 µS/cm	0.81 mg/L	1.21 NTU	11.3 mV	55.50 ft	100.00 ml/min
1/11/2022 12:51 PM	05:00	6.68 pH	12.35 °C	777.80 µS/cm	0.77 mg/L	1.44 NTU	-8.0 mV	55.70 ft	100.00 ml/min
1/11/2022 12:56 PM	10:00	6.68 pH	12.42 °C	774.48 µS/cm	0.79 mg/L	1.52 NTU	24.3 mV	55.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 1:45:04 PM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.99 ft Total Depth: 43.99 ft Initial Depth to Water: 17.05 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 15.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 35.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time-1553. EB-1 here at 1430

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
1/11/2022 1:45 PM	00:00	6.66 pH	16.87 °C	769.03 µS/cm	8.93 mg/L	73.00 NTU	18.8 mV	17.05 ft	125.00 ml/min
1/11/2022 1:50 PM	05:00	5.83 pH	17.25 °C	349.96 µS/cm	4.15 mg/L	76.00 NTU	82.2 mV	17.40 ft	125.00 ml/min
1/11/2022 1:55 PM	10:00	5.43 pH	17.55 °C	327.42 µS/cm	2.03 mg/L	66.00 NTU	119.0 mV	17.70 ft	125.00 ml/min
1/11/2022 2:00 PM	15:00	5.39 pH	17.56 °C	330.54 µS/cm	1.68 mg/L	65.00 NTU	180.2 mV	18.30 ft	125.00 ml/min
1/11/2022 2:05 PM	20:00	5.38 pH	17.15 °C	327.59 µS/cm	1.62 mg/L	44.00 NTU	187.6 mV	18.60 ft	125.00 ml/min
1/11/2022 2:10 PM	25:00	5.38 pH	17.21 °C	330.79 µS/cm	1.46 mg/L	39.00 NTU	190.7 mV	19.20 ft	125.00 ml/min
1/11/2022 2:15 PM	30:00	5.39 pH	16.73 °C	329.40 µS/cm	1.29 mg/L	34.00 NTU	191.5 mV	19.40 ft	125.00 ml/min
1/11/2022 2:20 PM	35:00	5.39 pH	16.47 °C	329.21 µS/cm	1.18 mg/L	28.00 NTU	191.7 mV	19.50 ft	125.00 ml/min
1/11/2022 2:25 PM	40:00	5.39 pH	16.06 °C	329.05 µS/cm	1.06 mg/L	22.00 NTU	191.1 mV	19.70 ft	125.00 ml/min
1/11/2022 2:30 PM	45:00	5.39 pH	15.97 °C	328.46 µS/cm	1.00 mg/L	19.00 NTU	191.3 mV	19.90 ft	125.00 ml/min
1/11/2022 2:35 PM	50:00	5.39 pH	15.86 °C	328.28 µS/cm	1.00 mg/L	17.00 NTU	126.2 mV	20.00 ft	125.00 ml/min
1/11/2022 2:40 PM	55:00	5.40 pH	15.26 °C	325.31 µS/cm	1.00 mg/L	16.00 NTU	187.7 mV	20.00 ft	125.00 ml/min
1/11/2022 2:45 PM	01:00:00	5.40 pH	15.11 °C	326.35 µS/cm	1.04 mg/L	16.00 NTU	188.2 mV	20.00 ft	125.00 ml/min
1/11/2022 2:50 PM	01:05:00	5.41 pH	14.89 °C	323.25 µS/cm	1.05 mg/L	14.00 NTU	123.4 mV	20.00 ft	125.00 ml/min
1/11/2022 2:55 PM	01:10:00	5.40 pH	14.85 °C	325.07 µS/cm	1.07 mg/L	11.00 NTU	185.6 mV	20.00 ft	125.00 ml/min

1/11/2022 3:00 PM	01:15:00	5.40 pH	14.68 °C	324.07 µS/cm	1.11 mg/L	9.52 NTU	122.6 mV	20.00 ft	125.00 ml/min
1/11/2022 3:05 PM	01:20:00	5.40 pH	14.67 °C	324.00 µS/cm	1.11 mg/L	7.99 NTU	182.8 mV	20.00 ft	125.00 ml/min
1/11/2022 3:10 PM	01:25:00	5.41 pH	14.35 °C	323.07 µS/cm	1.11 mg/L	7.59 NTU	121.2 mV	20.00 ft	125.00 ml/min
1/11/2022 3:15 PM	01:30:00	5.41 pH	14.34 °C	322.72 µS/cm	1.13 mg/L	6.81 NTU	120.2 mV	20.00 ft	125.00 ml/min
1/11/2022 3:20 PM	01:35:00	5.40 pH	14.25 °C	324.37 µS/cm	1.16 mg/L	6.47 NTU	180.1 mV	20.00 ft	125.00 ml/min
1/11/2022 3:25 PM	01:40:00	5.40 pH	14.58 °C	323.65 µS/cm	1.15 mg/L	6.38 NTU	120.9 mV	20.00 ft	125.00 ml/min
1/11/2022 3:30 PM	01:45:00	5.40 pH	14.68 °C	322.87 µS/cm	1.15 mg/L	6.11 NTU	119.9 mV	20.00 ft	125.00 ml/min
1/11/2022 3:35 PM	01:50:00	5.40 pH	14.77 °C	323.77 µS/cm	1.18 mg/L	5.94 NTU	179.9 mV	20.00 ft	125.00 ml/min
1/11/2022 3:40 PM	01:55:00	5.40 pH	14.82 °C	323.52 µS/cm	1.17 mg/L	5.22 NTU	180.2 mV	20.00 ft	125.00 ml/min
1/11/2022 3:45 PM	02:00:00	5.40 pH	14.84 °C	323.78 µS/cm	1.17 mg/L	5.25 NTU	180.5 mV	20.00 ft	125.00 ml/min
1/11/2022 3:50 PM	02:05:00	5.40 pH	14.76 °C	324.58 µS/cm	1.18 mg/L	3.29 NTU	121.5 mV	20.00 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 2:22:11 PM

Project: Plant Wansley - Ash Pond

Operator Name: H Auld

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.8 ft Total Depth: 53.86 ft Initial Depth to Water: 31.75 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48.8 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 7.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1450 on 1-11-22. Sunny, 40s. FB-1 here at 1440.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
1/11/2022 2:22 PM	00:00	5.68 pH	16.37 °C	84.95 µS/cm	5.76 mg/L	5.00 NTU	143.8 mV	31.75 ft	150.00 ml/min
1/11/2022 2:22 PM	00:28	5.65 pH	16.31 °C	83.15 µS/cm	5.50 mg/L	5.00 NTU	166.6 mV	31.75 ft	150.00 ml/min
1/11/2022 2:27 PM	05:28	5.60 pH	16.37 °C	76.75 µS/cm	4.55 mg/L	11.40 NTU	141.5 mV	32.40 ft	150.00 ml/min
1/11/2022 2:32 PM	10:28	5.61 pH	16.31 °C	75.06 µS/cm	4.39 mg/L	6.40 NTU	138.6 mV	32.40 ft	150.00 ml/min
1/11/2022 2:37 PM	15:28	5.58 pH	16.24 °C	74.79 µS/cm	4.36 mg/L	5.70 NTU	138.2 mV	32.40 ft	150.00 ml/min
1/11/2022 2:42 PM	20:28	5.62 pH	16.58 °C	75.83 µS/cm	4.29 mg/L	4.00 NTU	135.9 mV	32.40 ft	150.00 ml/min
1/11/2022 2:47 PM	25:28	5.61 pH	16.33 °C	77.61 µS/cm	4.27 mg/L	4.10 NTU	135.1 mV	32.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 1:08:06 PM

Project: Plant Wansley - Ash Pond

Operator Name: H Auld

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 13.49 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35.75 ft Estimated Total Volume Pumped: 7.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 2.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1335 on 1-11-22. Sunny, 40s. Dup-1 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
1/11/2022 1:08 PM	00:00	4.47 pH	18.40 °C	506.85 µS/cm	2.23 mg/L	2.40 NTU	210.9 mV	13.49 ft	225.00 ml/min
1/11/2022 1:13 PM	05:00	4.39 pH	18.71 °C	500.43 µS/cm	1.24 mg/L	2.40 NTU	250.4 mV	13.70 ft	225.00 ml/min
1/11/2022 1:18 PM	10:00	4.37 pH	18.69 °C	492.00 µS/cm	0.98 mg/L	3.80 NTU	249.8 mV	13.70 ft	225.00 ml/min
1/11/2022 1:23 PM	15:00	4.38 pH	18.70 °C	491.87 µS/cm	0.77 mg/L	3.80 NTU	247.4 mV	13.70 ft	225.00 ml/min
1/11/2022 1:28 PM	20:00	4.38 pH	18.65 °C	492.33 µS/cm	0.68 mg/L	3.50 NTU	246.4 mV	13.70 ft	225.00 ml/min
1/11/2022 1:33 PM	25:00	4.39 pH	18.90 °C	493.41 µS/cm	0.67 mg/L	3.30 NTU	246.1 mV	13.70 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 4:10:57 PM

Project: Plant Wansley - Ash Pond

Operator Name: Anna Schnittker

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.9 ft Total Depth: 39.93 ft Initial Depth to Water: 17.06 ft	Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 20 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time 1640. Sunny 50. note:70min of additional purge time prior to this - meter failed

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 4	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 5	
1/11/2022 4:10 PM	00:00	5.25 pH	15.84 °C	313.28 µS/cm	0.86 mg/L	3.66 NTU	143.8 mV	17.06 ft	200.00 ml/min
1/11/2022 4:15 PM	05:00	5.25 pH	16.11 °C	310.99 µS/cm	0.44 mg/L	3.20 NTU	224.2 mV	17.60 ft	200.00 ml/min
1/11/2022 4:20 PM	10:00	5.26 pH	16.16 °C	309.30 µS/cm	0.41 mg/L	3.18 NTU	156.9 mV	17.60 ft	200.00 ml/min
1/11/2022 4:25 PM	15:00	5.26 pH	16.22 °C	308.70 µS/cm	0.40 mg/L	2.14 NTU	220.1 mV	17.60 ft	200.00 ml/min
1/11/2022 4:30 PM	20:00	5.26 pH	16.11 °C	308.16 µS/cm	0.40 mg/L	2.50 NTU	221.7 mV	17.60 ft	200.00 ml/min
1/11/2022 4:35 PM	25:00	5.26 pH	16.11 °C	307.91 µS/cm	0.37 mg/L	2.45 NTU	222.0 mV	17.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 11:11:23 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.86 ft Total Depth: 129.86 ft Initial Depth to Water: 27.96 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time -WGWA-1

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/1/2022 11:11 AM	00:00	6.46 pH	18.61 °C	76.49 µS/cm	8.22 mg/L	4.11 NTU	146.9 mV	27.96 ft	100.00 ml/min
3/1/2022 11:16 AM	05:00	5.93 pH	15.58 °C	36.39 µS/cm	6.34 mg/L	3.69 NTU	115.1 mV	28.20 ft	100.00 ml/min
3/1/2022 11:21 AM	10:00	5.78 pH	16.22 °C	33.49 µS/cm	1.82 mg/L	3.90 NTU	70.7 mV	28.20 ft	100.00 ml/min
3/1/2022 11:26 AM	15:00	5.68 pH	16.70 °C	32.48 µS/cm	0.71 mg/L	3.31 NTU	52.4 mV	28.20 ft	100.00 ml/min
3/1/2022 11:31 AM	20:00	5.51 pH	16.34 °C	32.26 µS/cm	0.44 mg/L	3.16 NTU	53.1 mV	28.20 ft	100.00 ml/min
3/1/2022 11:36 AM	25:00	5.41 pH	16.12 °C	32.66 µS/cm	0.38 mg/L	2.82 NTU	58.9 mV	28.20 ft	100.00 ml/min
3/1/2022 11:41 AM	30:00	5.36 pH	16.15 °C	33.02 µS/cm	0.49 mg/L	2.55 NTU	61.5 mV	28.20 ft	100.00 ml/min
3/1/2022 11:46 AM	35:00	5.32 pH	16.43 °C	32.88 µS/cm	0.69 mg/L	1.66 NTU	60.4 mV	28.20 ft	100.00 ml/min
3/1/2022 11:51 AM	40:00	5.31 pH	16.57 °C	33.08 µS/cm	0.97 mg/L	1.46 NTU	59.6 mV	28.20 ft	100.00 ml/min
3/1/2022 11:56 AM	45:00	5.31 pH	16.38 °C	33.01 µS/cm	1.17 mg/L	1.13 NTU	60.4 mV	28.20 ft	100.00 ml/min
3/1/2022 12:01 PM	50:00	5.31 pH	16.20 °C	32.67 µS/cm	1.33 mg/L	1.93 NTU	60.4 mV	28.20 ft	100.00 ml/min
3/1/2022 12:06 PM	55:00	5.31 pH	16.29 °C	32.70 µS/cm	1.41 mg/L	1.29 NTU	59.7 mV	28.20 ft	100.00 ml/min
3/1/2022 12:11 PM	01:00:00	5.32 pH	16.42 °C	32.68 µS/cm	1.46 mg/L	1.53 NTU	59.7 mV	28.20 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/1/2022 2:25:10 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.65 ft Total Depth: 102.65 ft Initial Depth to Water: 9.33 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 5.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1510, FB-1 here at 1450

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/1/2022 2:25 PM	00:00	6.45 pH	23.23 °C	0.00 µS/cm	7.91 mg/L	7.37 NTU	36.4 mV	9.33 ft	125.00 ml/min
3/1/2022 2:30 PM	05:00	6.54 pH	17.14 °C	116.40 µS/cm	2.43 mg/L	5.11 NTU	-7.7 mV	9.60 ft	125.00 ml/min
3/1/2022 2:35 PM	10:00	6.22 pH	16.87 °C	117.13 µS/cm	1.17 mg/L	2.41 NTU	-23.5 mV	9.80 ft	125.00 ml/min
3/1/2022 2:40 PM	15:00	6.25 pH	16.87 °C	128.32 µS/cm	1.02 mg/L	3.33 NTU	3.4 mV	9.80 ft	125.00 ml/min
3/1/2022 2:45 PM	20:00	6.23 pH	17.12 °C	127.81 µS/cm	0.92 mg/L	2.81 NTU	23.8 mV	9.80 ft	125.00 ml/min
3/1/2022 2:50 PM	25:00	6.21 pH	17.01 °C	125.69 µS/cm	0.84 mg/L	2.33 NTU	29.1 mV	9.80 ft	125.00 ml/min
3/1/2022 2:55 PM	30:00	6.20 pH	17.01 °C	124.75 µS/cm	0.77 mg/L	2.02 NTU	30.7 mV	9.80 ft	125.00 ml/min
3/1/2022 3:00 PM	35:00	6.20 pH	16.92 °C	124.44 µS/cm	0.71 mg/L	2.76 NTU	31.1 mV	9.80 ft	125.00 ml/min
3/1/2022 3:05 PM	40:00	6.20 pH	16.81 °C	124.62 µS/cm	0.66 mg/L	2.22 NTU	31.2 mV	9.80 ft	125.00 ml/min
3/1/2022 3:10 PM	45:00	6.20 pH	16.80 °C	124.70 µS/cm	0.62 mg/L	1.46 NTU	31.2 mV	9.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 3:11:12 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 2.8 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1543, sunny 50s, Dup-1 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/1/2022 3:11 PM	00:00	6.23 pH	17.01 °C	33.16 µS/cm	6.17 mg/L	0.61 NTU	118.7 mV	2.80 ft	150.00 ml/min
3/1/2022 3:16 PM	05:00	5.65 pH	16.48 °C	32.86 µS/cm	5.57 mg/L	0.49 NTU	110.7 mV	2.80 ft	150.00 ml/min
3/1/2022 3:21 PM	10:00	5.61 pH	16.43 °C	32.81 µS/cm	5.54 mg/L	0.50 NTU	109.2 mV	2.80 ft	150.00 ml/min
3/1/2022 3:26 PM	15:00	5.60 pH	16.43 °C	32.81 µS/cm	5.53 mg/L	0.83 NTU	104.7 mV	2.80 ft	150.00 ml/min
3/1/2022 3:31 PM	20:00	5.59 pH	16.42 °C	32.82 µS/cm	5.52 mg/L	0.43 NTU	103.0 mV	2.80 ft	150.00 ml/min
3/1/2022 3:36 PM	25:00	5.59 pH	16.43 °C	32.84 µS/cm	5.53 mg/L	0.53 NTU	99.6 mV	2.80 ft	150.00 ml/min
3/1/2022 3:41 PM	30:00	5.59 pH	16.45 °C	32.86 µS/cm	5.51 mg/L	0.42 NTU	96.6 mV	2.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/28/2022 3:55:40 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.9 ft Total Depth: 73.9 ft Initial Depth to Water: 4.55 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 69 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1628, sunny 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
2/28/2022 3:55 PM	00:00	6.88 pH	16.47 °C	186.98 µS/cm	0.23 mg/L	1.49 NTU	-95.9 mV	4.55 ft	150.00 ml/min
2/28/2022 4:00 PM	05:00	7.08 pH	16.23 °C	192.06 µS/cm	0.05 mg/L	1.58 NTU	-120.9 mV	5.50 ft	150.00 ml/min
2/28/2022 4:05 PM	10:00	7.13 pH	16.29 °C	189.14 µS/cm	0.05 mg/L	1.04 NTU	-122.3 mV	5.80 ft	150.00 ml/min
2/28/2022 4:10 PM	15:00	7.12 pH	16.29 °C	185.02 µS/cm	0.06 mg/L	0.79 NTU	-118.0 mV	6.00 ft	150.00 ml/min
2/28/2022 4:15 PM	20:00	7.12 pH	16.20 °C	182.47 µS/cm	0.08 mg/L	0.67 NTU	-110.4 mV	6.00 ft	150.00 ml/min
2/28/2022 4:20 PM	25:00	7.12 pH	16.29 °C	181.60 µS/cm	0.09 mg/L	0.74 NTU	-106.1 mV	6.00 ft	150.00 ml/min
2/28/2022 4:25 PM	30:00	7.14 pH	16.38 °C	180.34 µS/cm	0.10 mg/L	0.44 NTU	-103.0 mV	6.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 11:10:13 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12.6 ft Total Depth: 23.6 ft Initial Depth to Water: 14.47 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 17337.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1307, sunny 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/1/2022 11:10 AM	00:00	5.68 pH	17.48 °C	42.18 µS/cm	4.61 mg/L	14.70 NTU	112.7 mV	14.47 ft	150.00 ml/min
3/1/2022 11:15 AM	05:00	5.64 pH	17.00 °C	39.62 µS/cm	4.73 mg/L	15.70 NTU	100.7 mV	14.70 ft	150.00 ml/min
3/1/2022 11:20 AM	10:00	5.55 pH	16.91 °C	35.09 µS/cm	4.75 mg/L	15.50 NTU	99.6 mV	14.70 ft	150.00 ml/min
3/1/2022 11:25 AM	15:00	5.51 pH	17.10 °C	32.47 µS/cm	4.84 mg/L	16.50 NTU	96.5 mV	14.70 ft	150.00 ml/min
3/1/2022 11:30 AM	20:00	5.67 pH	17.34 °C	33.88 µS/cm	6.97 mg/L	17.30 NTU	90.3 mV	14.70 ft	150.00 ml/min
3/1/2022 11:35 AM	25:00	5.44 pH	17.54 °C	29.39 µS/cm	4.80 mg/L	15.40 NTU	88.9 mV	14.70 ft	150.00 ml/min
3/1/2022 11:40 AM	30:00	5.37 pH	18.40 °C	27.32 µS/cm	4.86 mg/L	15.90 NTU	93.2 mV	14.70 ft	150.00 ml/min
3/1/2022 11:45 AM	35:00	5.43 pH	18.65 °C	28.38 µS/cm	4.95 mg/L	15.00 NTU	87.0 mV	14.70 ft	150.00 ml/min
3/1/2022 11:50 AM	40:00	5.46 pH	18.80 °C	30.50 µS/cm	4.90 mg/L	15.80 NTU	85.2 mV	14.70 ft	150.00 ml/min
3/1/2022 11:55 AM	45:00	5.46 pH	19.28 °C	30.27 µS/cm	4.81 mg/L	15.70 NTU	89.0 mV	14.70 ft	150.00 ml/min
3/1/2022 12:00 PM	50:00	5.44 pH	19.59 °C	29.37 µS/cm	4.87 mg/L	16.30 NTU	83.8 mV	14.70 ft	150.00 ml/min
3/1/2022 12:05 PM	55:00	6.13 pH	18.92 °C	144.07 µS/cm	4.78 mg/L	14.40 NTU	73.1 mV	14.70 ft	150.00 ml/min
3/1/2022 12:10 PM	01:00:00	6.36 pH	18.24 °C	130.49 µS/cm	3.25 mg/L	12.80 NTU	85.5 mV	14.70 ft	150.00 ml/min
3/1/2022 12:15 PM	01:05:00	5.92 pH	18.00 °C	59.53 µS/cm	4.11 mg/L	13.50 NTU	70.2 mV	14.70 ft	150.00 ml/min
3/1/2022 12:20 PM	01:10:00	5.60 pH	17.83 °C	36.00 µS/cm	4.50 mg/L	14.10 NTU	80.2 mV	14.70 ft	150.00 ml/min

3/1/2022 12:25 PM	01:15:00	5.52 pH	17.67 °C	32.48 µS/cm	4.72 mg/L	14.60 NTU	81.7 mV	14.70 ft	150.00 ml/min
3/1/2022 12:30 PM	01:20:00	5.49 pH	17.58 °C	31.23 µS/cm	4.81 mg/L	13.80 NTU	81.9 mV	14.70 ft	150.00 ml/min
3/1/2022 12:35 PM	01:25:00	5.48 pH	17.54 °C	31.10 µS/cm	4.80 mg/L	14.60 NTU	80.6 mV	14.70 ft	150.00 ml/min
3/1/2022 12:40 PM	01:30:00	5.42 pH	17.50 °C	28.15 µS/cm	5.05 mg/L	12.80 NTU	80.3 mV	14.70 ft	150.00 ml/min
3/1/2022 12:45 PM	01:35:00	5.42 pH	17.53 °C	28.16 µS/cm	5.02 mg/L	10.60 NTU	81.1 mV	14.70 ft	150.00 ml/min
3/1/2022 12:50 PM	01:40:00	5.43 pH	17.45 °C	28.45 µS/cm	4.98 mg/L	8.98 NTU	80.0 mV	14.70 ft	150.00 ml/min
3/1/2022 12:55 PM	01:45:00	5.45 pH	17.40 °C	29.63 µS/cm	4.98 mg/L	6.78 NTU	80.7 mV	14.70 ft	150.00 ml/min
3/1/2022 12:55 PM	01:45:35	5.45 pH	17.37 °C	29.76 µS/cm	5.00 mg/L	6.78 NTU	72.8 mV	14.70 ft	150.00 ml/min
3/1/2022 1:00 PM	01:50:35	5.47 pH	17.34 °C	30.14 µS/cm	4.93 mg/L	5.19 NTU	77.8 mV	14.70 ft	150.00 ml/min
3/1/2022 1:05 PM	01:55:35	5.47 pH	17.27 °C	30.09 µS/cm	4.99 mg/L	4.91 NTU	76.0 mV	14.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 2:05:11 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 94.5 ft Total Depth: 104.5 ft Initial Depth to Water: 16.51 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 99 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.79 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1437, sunny 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/1/2022 2:05 PM	00:00	6.49 pH	17.56 °C	159.26 µS/cm	4.14 mg/L	3.22 NTU	64.6 mV	16.51 ft	150.00 ml/min
3/1/2022 2:10 PM	05:00	7.58 pH	17.01 °C	163.34 µS/cm	0.46 mg/L	0.71 NTU	-85.3 mV	17.10 ft	150.00 ml/min
3/1/2022 2:15 PM	10:00	7.72 pH	16.89 °C	164.13 µS/cm	0.20 mg/L	1.45 NTU	-84.4 mV	17.20 ft	150.00 ml/min
3/1/2022 2:20 PM	15:00	7.79 pH	16.92 °C	164.55 µS/cm	0.13 mg/L	0.93 NTU	-136.3 mV	17.30 ft	150.00 ml/min
3/1/2022 2:25 PM	20:00	7.81 pH	16.92 °C	164.73 µS/cm	0.13 mg/L	0.71 NTU	-97.2 mV	17.30 ft	150.00 ml/min
3/1/2022 2:30 PM	25:00	7.84 pH	16.86 °C	164.91 µS/cm	0.13 mg/L	0.59 NTU	-144.3 mV	17.30 ft	150.00 ml/min
3/1/2022 2:35 PM	30:00	7.86 pH	16.87 °C	164.98 µS/cm	0.15 mg/L	0.39 NTU	-107.0 mV	17.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 11:36:44 AM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 26.5 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 12.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1152 on 3-3-22. Sunny 70s. Continued from previous log, accidentally closed out log early.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 11:36 AM	00:00	5.48 pH	18.24 °C	31.83 µS/cm	6.64 mg/L	0.70 NTU	21.1 mV	26.50 ft	225.00 ml/min
3/3/2022 11:41 AM	05:00	5.46 pH	17.71 °C	28.43 µS/cm	5.80 mg/L	0.60 NTU	21.4 mV	26.50 ft	225.00 ml/min
3/3/2022 11:46 AM	10:00	5.45 pH	17.66 °C	28.73 µS/cm	5.78 mg/L	0.70 NTU	21.5 mV	26.50 ft	225.00 ml/min
3/3/2022 11:51 AM	15:00	5.44 pH	17.74 °C	27.60 µS/cm	5.79 mg/L	0.30 NTU	21.1 mV	26.50 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 11:05:12 AM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.59 ft Total Depth: 39.59 ft Initial Depth to Water: 20.62 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 32 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1240. Sunny 60.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 11:05 AM	00:00	6.73 pH	17.81 °C	68.76 µS/cm	3.78 mg/L	1.27 NTU	61.4 mV	20.62 ft	100.00 ml/min
3/3/2022 11:10 AM	05:00	7.04 pH	17.52 °C	73.81 µS/cm	1.39 mg/L	1.67 NTU	41.1 mV	21.30 ft	100.00 ml/min
3/3/2022 11:15 AM	10:00	7.13 pH	17.42 °C	76.46 µS/cm	0.70 mg/L	1.43 NTU	36.2 mV	21.70 ft	100.00 ml/min
3/3/2022 11:20 AM	15:00	7.00 pH	17.45 °C	76.76 µS/cm	0.66 mg/L	1.37 NTU	38.7 mV	21.90 ft	100.00 ml/min
3/3/2022 11:25 AM	20:00	6.79 pH	17.63 °C	76.58 µS/cm	0.75 mg/L	1.11 NTU	44.9 mV	22.40 ft	100.00 ml/min
3/3/2022 11:30 AM	25:00	6.69 pH	17.58 °C	75.39 µS/cm	0.73 mg/L	0.79 NTU	47.4 mV	22.50 ft	100.00 ml/min
3/3/2022 11:35 AM	30:00	6.62 pH	17.90 °C	74.41 µS/cm	0.57 mg/L	0.50 NTU	48.2 mV	22.60 ft	100.00 ml/min
3/3/2022 11:40 AM	35:00	6.54 pH	17.72 °C	72.03 µS/cm	0.47 mg/L	0.58 NTU	49.1 mV	22.70 ft	100.00 ml/min
3/3/2022 11:45 AM	40:00	6.42 pH	17.70 °C	65.66 µS/cm	0.68 mg/L	0.53 NTU	51.0 mV	22.80 ft	100.00 ml/min
3/3/2022 11:50 AM	45:00	6.33 pH	17.83 °C	59.66 µS/cm	1.49 mg/L	0.51 NTU	56.2 mV	22.90 ft	100.00 ml/min
3/3/2022 11:55 AM	50:00	6.29 pH	19.59 °C	60.68 µS/cm	1.62 mg/L	0.56 NTU	53.7 mV	23.10 ft	100.00 ml/min
3/3/2022 12:00 PM	55:00	6.24 pH	18.47 °C	54.27 µS/cm	1.83 mg/L	0.50 NTU	58.4 mV	23.30 ft	100.00 ml/min
3/3/2022 12:05 PM	01:00:00	6.19 pH	18.43 °C	52.89 µS/cm	1.79 mg/L	0.46 NTU	61.0 mV	23.30 ft	100.00 ml/min
3/3/2022 12:10 PM	01:05:00	6.11 pH	18.19 °C	48.42 µS/cm	2.08 mg/L	0.43 NTU	64.3 mV	23.30 ft	100.00 ml/min
3/3/2022 12:15 PM	01:10:00	6.04 pH	18.24 °C	45.83 µS/cm	2.38 mg/L	0.47 NTU	67.6 mV	23.30 ft	100.00 ml/min

3/3/2022 12:20 PM	01:15:00	5.98 pH	18.30 °C	44.57 µS/cm	2.54 mg/L	0.44 NTU	76.4 mV	23.30 ft	100.00 ml/min
3/3/2022 12:25 PM	01:20:00	5.97 pH	18.25 °C	43.34 µS/cm	2.58 mg/L	0.41 NTU	79.0 mV	23.30 ft	100.00 ml/min
3/3/2022 12:30 PM	01:25:00	5.95 pH	18.21 °C	42.10 µS/cm	2.60 mg/L	0.78 NTU	76.4 mV	23.30 ft	100.00 ml/min
3/3/2022 12:35 PM	01:30:00	5.94 pH	18.34 °C	42.02 µS/cm	2.55 mg/L	1.12 NTU	77.8 mV	23.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 4:06:10 PM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49 ft Total Depth: 59.4 ft Initial Depth to Water: 3.77 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 12 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1645. Sunny 70. EB-2 here at 1615.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 4:06 PM	00:00	6.04 pH	22.85 °C	446.43 µS/cm	2.81 mg/L	1.34 NTU	122.5 mV	3.77 ft	100.00 ml/min
3/3/2022 4:11 PM	05:00	5.80 pH	19.23 °C	477.04 µS/cm	1.97 mg/L	1.67 NTU	73.1 mV	4.20 ft	100.00 ml/min
3/3/2022 4:16 PM	10:00	5.38 pH	18.90 °C	485.75 µS/cm	1.80 mg/L	6.08 NTU	78.0 mV	4.40 ft	100.00 ml/min
3/3/2022 4:21 PM	15:00	5.26 pH	18.39 °C	482.10 µS/cm	1.73 mg/L	5.24 NTU	85.7 mV	4.50 ft	100.00 ml/min
3/3/2022 4:26 PM	20:00	5.23 pH	18.24 °C	484.56 µS/cm	1.61 mg/L	4.87 NTU	91.2 mV	4.60 ft	100.00 ml/min
3/3/2022 4:31 PM	25:00	5.22 pH	18.13 °C	483.33 µS/cm	1.49 mg/L	3.64 NTU	95.1 mV	4.60 ft	100.00 ml/min
3/3/2022 4:36 PM	30:00	5.21 pH	17.89 °C	485.20 µS/cm	1.45 mg/L	3.05 NTU	97.8 mV	4.70 ft	100.00 ml/min
3/3/2022 4:41 PM	35:00	5.21 pH	17.73 °C	487.31 µS/cm	1.44 mg/L	2.47 NTU	93.0 mV	4.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 2:46:04 PM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51 ft Total Depth: 61.08 ft Initial Depth to Water: 19.57 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 32 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1525. Sunny 70.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 2:46 PM	00:00	6.49 pH	29.14 °C	96.18 µS/cm	4.38 mg/L	2.25 NTU	90.8 mV	19.57 ft	125.00 ml/min
3/3/2022 2:51 PM	05:00	5.96 pH	22.43 °C	101.70 µS/cm	0.68 mg/L	2.19 NTU	88.1 mV	22.00 ft	125.00 ml/min
3/3/2022 2:56 PM	10:00	5.95 pH	21.87 °C	102.31 µS/cm	0.43 mg/L	1.96 NTU	96.1 mV	22.10 ft	125.00 ml/min
3/3/2022 3:01 PM	15:00	5.90 pH	21.67 °C	103.24 µS/cm	0.49 mg/L	1.78 NTU	83.5 mV	22.20 ft	125.00 ml/min
3/3/2022 3:06 PM	20:00	5.89 pH	21.73 °C	103.89 µS/cm	0.70 mg/L	1.24 NTU	88.4 mV	22.20 ft	125.00 ml/min
3/3/2022 3:11 PM	25:00	5.87 pH	21.56 °C	103.45 µS/cm	0.79 mg/L	1.34 NTU	79.6 mV	22.20 ft	125.00 ml/min
3/3/2022 3:16 PM	30:00	5.86 pH	21.64 °C	104.24 µS/cm	0.85 mg/L	0.83 NTU	78.7 mV	22.20 ft	125.00 ml/min
3/3/2022 3:21 PM	35:00	5.86 pH	21.55 °C	104.69 µS/cm	0.89 mg/L	0.76 NTU	78.4 mV	22.20 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 11:10:03 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.98 ft Total Depth: 148.98 ft Initial Depth to Water: 20.77 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 143 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.63 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sampled collected at 1152, sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/3/2022 11:10 AM	00:00	6.37 pH	16.96 °C	63.19 µS/cm	1.51 mg/L	2.21 NTU	107.5 mV	20.77 ft	100.00 ml/min
3/3/2022 11:15 AM	05:00	6.29 pH	16.43 °C	60.76 µS/cm	0.77 mg/L	1.47 NTU	79.9 mV	21.70 ft	100.00 ml/min
3/3/2022 11:20 AM	10:00	6.30 pH	16.51 °C	60.38 µS/cm	1.95 mg/L	1.84 NTU	104.7 mV	21.90 ft	100.00 ml/min
3/3/2022 11:25 AM	15:00	6.31 pH	16.52 °C	61.38 µS/cm	3.19 mg/L	1.32 NTU	81.4 mV	22.00 ft	100.00 ml/min
3/3/2022 11:30 AM	20:00	6.34 pH	16.45 °C	63.77 µS/cm	3.95 mg/L	2.52 NTU	112.6 mV	22.10 ft	100.00 ml/min
3/3/2022 11:35 AM	25:00	6.36 pH	16.44 °C	65.12 µS/cm	4.48 mg/L	2.65 NTU	82.1 mV	22.20 ft	100.00 ml/min
3/3/2022 11:40 AM	30:00	6.37 pH	16.43 °C	65.40 µS/cm	4.67 mg/L	2.48 NTU	81.9 mV	22.30 ft	100.00 ml/min
3/3/2022 11:45 AM	35:00	6.37 pH	16.39 °C	65.50 µS/cm	4.77 mg/L	2.76 NTU	81.1 mV	22.30 ft	100.00 ml/min
3/3/2022 11:50 AM	40:00	6.36 pH	16.56 °C	65.21 µS/cm	4.81 mg/L	1.90 NTU	84.1 mV	22.40 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 3:03:33 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.5 ft Total Depth: 49.5 ft Initial Depth to Water: 27.14 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44.5 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 27.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1530 on 3-3-22. Sunny 70s. FB-2 here at 1515.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 3:03 PM	00:00	5.59 pH	22.26 °C	34.32 µS/cm	5.89 mg/L	10.00 NTU	42.2 mV	27.14 ft	200.00 ml/min
3/3/2022 3:08 PM	05:00	5.56 pH	18.82 °C	34.98 µS/cm	6.44 mg/L	2.00 NTU	41.9 mV	29.00 ft	200.00 ml/min
3/3/2022 3:13 PM	10:00	5.59 pH	18.60 °C	35.55 µS/cm	6.11 mg/L	2.20 NTU	42.1 mV	29.20 ft	200.00 ml/min
3/3/2022 3:18 PM	15:00	5.61 pH	18.54 °C	35.96 µS/cm	6.09 mg/L	1.80 NTU	41.0 mV	29.30 ft	200.00 ml/min
3/3/2022 3:23 PM	20:00	5.61 pH	18.56 °C	36.52 µS/cm	6.20 mg/L	1.70 NTU	40.7 mV	29.30 ft	200.00 ml/min
3/3/2022 3:28 PM	25:00	5.59 pH	18.55 °C	36.88 µS/cm	6.30 mg/L	1.50 NTU	41.3 mV	29.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 12:18:04 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.57 ft Total Depth: 76.57 ft Initial Depth to Water: 26.78 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 35750 ml Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1430 , sunny 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/4/2022 12:18 PM	00:00	6.54 pH	19.02 °C	123.36 µS/cm	1.98 mg/L	10.90 NTU	4.1 mV	26.78 ft	275.00 ml/min
3/4/2022 12:23 PM	05:00	6.64 pH	18.05 °C	110.08 µS/cm	1.13 mg/L	1,000.00 NTU	0.0 mV	27.00 ft	275.00 ml/min
3/4/2022 12:28 PM	10:00	6.63 pH	17.83 °C	110.24 µS/cm	1.56 mg/L	681.00 NTU	1.5 mV	27.10 ft	275.00 ml/min
3/4/2022 12:33 PM	15:00	6.65 pH	17.77 °C	111.77 µS/cm	1.07 mg/L	153.00 NTU	-0.7 mV	27.10 ft	275.00 ml/min
3/4/2022 12:38 PM	20:00	6.66 pH	17.72 °C	114.13 µS/cm	0.90 mg/L	49.70 NTU	-1.1 mV	27.20 ft	275.00 ml/min
3/4/2022 12:43 PM	25:00	6.69 pH	17.65 °C	116.19 µS/cm	0.61 mg/L	35.40 NTU	-9.7 mV	27.20 ft	275.00 ml/min
3/4/2022 12:48 PM	30:00	6.70 pH	17.67 °C	118.83 µS/cm	0.14 mg/L	17.30 NTU	-4.8 mV	27.20 ft	275.00 ml/min
3/4/2022 12:53 PM	35:00	6.72 pH	17.66 °C	120.10 µS/cm	0.13 mg/L	12.40 NTU	-4.6 mV	27.20 ft	275.00 ml/min
3/4/2022 12:58 PM	40:00	6.73 pH	17.65 °C	120.96 µS/cm	0.15 mg/L	12.10 NTU	-12.7 mV	27.20 ft	275.00 ml/min
3/4/2022 1:03 PM	45:00	6.74 pH	17.85 °C	120.97 µS/cm	0.18 mg/L	10.50 NTU	-5.5 mV	27.20 ft	275.00 ml/min
3/4/2022 1:08 PM	50:00	6.75 pH	17.91 °C	121.32 µS/cm	0.14 mg/L	8.81 NTU	-4.8 mV	27.20 ft	275.00 ml/min
3/4/2022 1:13 PM	55:00	6.76 pH	17.80 °C	121.34 µS/cm	0.14 mg/L	8.17 NTU	-5.3 mV	27.20 ft	275.00 ml/min
3/4/2022 1:18 PM	01:00:00	6.76 pH	18.03 °C	121.45 µS/cm	0.15 mg/L	7.74 NTU	-4.3 mV	27.20 ft	275.00 ml/min
3/4/2022 1:23 PM	01:05:00	6.76 pH	18.05 °C	121.17 µS/cm	0.16 mg/L	6.68 NTU	-12.0 mV	27.20 ft	275.00 ml/min
3/4/2022 1:28 PM	01:10:00	6.77 pH	18.15 °C	120.95 µS/cm	0.16 mg/L	6.40 NTU	-4.5 mV	27.20 ft	275.00 ml/min

3/4/2022 1:33 PM	01:15:00	6.78 pH	18.10 °C	120.85 µS/cm	0.18 mg/L	6.86 NTU	-3.3 mV	27.20 ft	275.00 ml/min
3/4/2022 1:38 PM	01:20:00	6.78 pH	18.21 °C	120.32 µS/cm	0.17 mg/L	5.88 NTU	-3.8 mV	27.20 ft	275.00 ml/min
3/4/2022 1:43 PM	01:25:00	6.78 pH	18.27 °C	120.15 µS/cm	0.18 mg/L	5.76 NTU	-3.4 mV	27.20 ft	275.00 ml/min
3/4/2022 1:48 PM	01:30:00	6.78 pH	18.32 °C	120.19 µS/cm	0.18 mg/L	5.72 NTU	-3.4 mV	27.20 ft	275.00 ml/min
3/4/2022 1:53 PM	01:35:00	6.79 pH	19.06 °C	120.18 µS/cm	0.20 mg/L	5.84 NTU	-13.5 mV	27.20 ft	275.00 ml/min
3/4/2022 1:58 PM	01:40:00	6.78 pH	19.26 °C	120.35 µS/cm	0.20 mg/L	7.47 NTU	-4.2 mV	27.20 ft	275.00 ml/min
3/4/2022 2:03 PM	01:45:00	6.80 pH	18.93 °C	119.73 µS/cm	0.41 mg/L	5.41 NTU	-1.0 mV	27.20 ft	275.00 ml/min
3/4/2022 2:08 PM	01:50:00	6.79 pH	19.00 °C	118.77 µS/cm	0.23 mg/L	5.74 NTU	3.3 mV	27.20 ft	275.00 ml/min
3/4/2022 2:13 PM	01:55:00	6.79 pH	18.63 °C	118.65 µS/cm	0.21 mg/L	5.15 NTU	3.7 mV	27.20 ft	275.00 ml/min
3/4/2022 2:18 PM	02:00:00	6.79 pH	18.29 °C	118.82 µS/cm	0.20 mg/L	5.12 NTU	0.5 mV	27.20 ft	275.00 ml/min
3/4/2022 2:23 PM	02:05:00	6.79 pH	18.30 °C	118.55 µS/cm	0.19 mg/L	5.16 NTU	-7.0 mV	27.20 ft	275.00 ml/min
3/4/2022 2:28 PM	02:10:00	6.79 pH	18.12 °C	118.51 µS/cm	0.19 mg/L	4.57 NTU	-1.0 mV	27.20 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 12:47:00 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.5 ft Total Depth: 95.55 ft Initial Depth to Water: 20.19 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 3.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 9.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1313 on 3-3-22. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 12:47 PM	00:00	5.21 pH	36.37 °C	0.00 µS/cm	5.46 mg/L	10.00 NTU	19.7 mV	20.19 ft	120.00 ml/min
3/3/2022 12:52 PM	05:00	6.51 pH	27.23 °C	61.45 µS/cm	5.47 mg/L	18.50 NTU	25.7 mV	20.60 ft	120.00 ml/min
3/3/2022 12:57 PM	10:00	6.25 pH	20.82 °C	67.86 µS/cm	1.03 mg/L	5.20 NTU	19.9 mV	20.70 ft	120.00 ml/min
3/3/2022 1:02 PM	15:00	6.31 pH	21.01 °C	67.19 µS/cm	1.62 mg/L	3.50 NTU	12.7 mV	20.80 ft	120.00 ml/min
3/3/2022 1:07 PM	20:00	6.31 pH	20.98 °C	66.92 µS/cm	1.60 mg/L	2.50 NTU	12.9 mV	20.90 ft	120.00 ml/min
3/3/2022 1:12 PM	25:00	6.31 pH	21.02 °C	66.43 µS/cm	1.60 mg/L	2.30 NTU	13.6 mV	21.00 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:40:57 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.08 ft Total Depth: 43.08 ft Initial Depth to Water: 20.16 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 8.9 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1407 on 3-3-22. Sunny , 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 1:40 PM	00:00	6.27 pH	40.37 °C	0.00 µS/cm	5.00 mg/L	10.00 NTU	22.5 mV	20.16 ft	150.00 ml/min
3/3/2022 1:45 PM	05:00	5.54 pH	31.17 °C	30.49 µS/cm	2.96 mg/L	7.90 NTU	28.0 mV	20.70 ft	150.00 ml/min
3/3/2022 1:50 PM	10:00	5.41 pH	22.84 °C	33.10 µS/cm	1.36 mg/L	5.90 NTU	22.3 mV	20.70 ft	150.00 ml/min
3/3/2022 1:55 PM	15:00	5.41 pH	22.48 °C	33.83 µS/cm	1.25 mg/L	4.40 NTU	14.9 mV	20.80 ft	150.00 ml/min
3/3/2022 2:00 PM	20:00	5.41 pH	22.16 °C	33.56 µS/cm	1.25 mg/L	3.70 NTU	13.8 mV	20.80 ft	150.00 ml/min
3/3/2022 2:05 PM	25:00	5.40 pH	21.67 °C	33.14 µS/cm	1.24 mg/L	3.20 NTU	13.8 mV	20.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:00:19 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.36 ft Total Depth: 53.36 ft Initial Depth to Water: 20 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1340.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/3/2022 1:00 PM	00:00	7.05 pH	19.02 °C	0.00 µS/cm	9.37 mg/L	2.33 NTU	358.3 mV	20.00 ft	100.00 ml/min
3/3/2022 1:05 PM	05:00	7.77 pH	19.77 °C	200.87 µS/cm	9.61 mg/L	3.17 NTU	149.3 mV	20.50 ft	100.00 ml/min
3/3/2022 1:10 PM	10:00	7.45 pH	17.59 °C	202.39 µS/cm	5.63 mg/L	2.61 NTU	-15.5 mV	21.10 ft	100.00 ml/min
3/3/2022 1:15 PM	15:00	7.65 pH	17.73 °C	211.08 µS/cm	3.69 mg/L	2.18 NTU	-55.8 mV	21.60 ft	100.00 ml/min
3/3/2022 1:20 PM	20:00	7.62 pH	18.10 °C	201.50 µS/cm	4.37 mg/L	2.10 NTU	-62.2 mV	22.00 ft	100.00 ml/min
3/3/2022 1:25 PM	25:00	7.61 pH	18.08 °C	197.90 µS/cm	5.72 mg/L	2.96 NTU	-46.6 mV	22.20 ft	100.00 ml/min
3/3/2022 1:30 PM	30:00	7.61 pH	19.38 °C	198.55 µS/cm	5.37 mg/L	2.31 NTU	-20.4 mV	22.20 ft	100.00 ml/min
3/3/2022 1:35 PM	35:00	7.61 pH	18.08 °C	195.37 µS/cm	5.18 mg/L	2.42 NTU	-24.7 mV	22.30 ft	100.00 ml/min
3/3/2022 1:40 PM	40:00	7.61 pH	18.04 °C	194.41 µS/cm	5.21 mg/L	2.22 NTU	-11.7 mV	22.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 2:22:07 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.78 ft Total Depth: 34.78 ft Initial Depth to Water: 19.13 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1452, DUP-2 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/3/2022 2:22 PM	00:00	7.72 pH	22.57 °C	0.00 µS/cm	8.54 mg/L	6.28 NTU	87.6 mV	19.13 ft	250.00 ml/min
3/3/2022 2:27 PM	05:00	5.44 pH	18.35 °C	264.15 µS/cm	6.80 mg/L	6.11 NTU	117.2 mV	19.40 ft	250.00 ml/min
3/3/2022 2:32 PM	10:00	5.23 pH	17.29 °C	239.73 µS/cm	4.61 mg/L	5.65 NTU	182.1 mV	19.40 ft	250.00 ml/min
3/3/2022 2:37 PM	15:00	5.22 pH	17.24 °C	238.27 µS/cm	4.40 mg/L	5.37 NTU	127.8 mV	19.40 ft	250.00 ml/min
3/3/2022 2:42 PM	20:00	5.22 pH	17.50 °C	242.45 µS/cm	4.36 mg/L	4.71 NTU	166.1 mV	19.40 ft	250.00 ml/min
3/3/2022 2:47 PM	25:00	5.21 pH	17.60 °C	238.82 µS/cm	4.36 mg/L	2.80 NTU	117.8 mV	19.40 ft	250.00 ml/min
3/3/2022 2:52 PM	30:00	5.22 pH	17.44 °C	239.07 µS/cm	4.33 mg/L	2.72 NTU	112.9 mV	19.40 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 10:42:13 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.94 ft Total Depth: 95.94 ft Initial Depth to Water: 29.8 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1114, sunny 70s, Dup-3 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/4/2022 10:42 AM	00:00	6.67 pH	17.67 °C	86.29 µS/cm	7.66 mg/L	4.84 NTU	24.4 mV	29.80 ft	200.00 ml/min
3/4/2022 10:47 AM	05:00	6.19 pH	17.09 °C	89.58 µS/cm	0.28 mg/L	3.49 NTU	-12.1 mV	30.60 ft	200.00 ml/min
3/4/2022 10:52 AM	10:00	6.21 pH	17.04 °C	90.70 µS/cm	0.33 mg/L	4.59 NTU	-29.7 mV	30.80 ft	200.00 ml/min
3/4/2022 10:57 AM	15:00	6.21 pH	16.96 °C	91.21 µS/cm	0.27 mg/L	3.23 NTU	-19.1 mV	30.90 ft	200.00 ml/min
3/4/2022 11:02 AM	20:00	6.21 pH	17.10 °C	91.49 µS/cm	0.24 mg/L	3.44 NTU	-20.7 mV	30.90 ft	200.00 ml/min
3/4/2022 11:07 AM	25:00	6.21 pH	17.10 °C	91.74 µS/cm	0.21 mg/L	2.29 NTU	-20.3 mV	31.00 ft	200.00 ml/min
3/4/2022 11:12 AM	30:00	6.21 pH	17.16 °C	91.86 µS/cm	0.20 mg/L	2.90 NTU	-18.8 mV	31.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:30:09 PM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85 ft Total Depth: 94.84 ft Initial Depth to Water: 19.71 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 8.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 17 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1405. Sunny 70.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 1:30 PM	00:00	6.58 pH	18.82 °C	87.55 µS/cm	0.32 mg/L	0.83 NTU	49.8 mV	19.71 ft	200.00 ml/min
3/3/2022 1:35 PM	05:00	6.63 pH	18.92 °C	87.59 µS/cm	0.14 mg/L	0.99 NTU	55.2 mV	20.90 ft	200.00 ml/min
3/3/2022 1:40 PM	10:00	6.64 pH	18.88 °C	87.25 µS/cm	0.08 mg/L	1.38 NTU	56.2 mV	21.00 ft	200.00 ml/min
3/3/2022 1:45 PM	15:00	6.65 pH	18.81 °C	87.75 µS/cm	0.06 mg/L	1.23 NTU	56.4 mV	21.00 ft	200.00 ml/min
3/3/2022 1:50 PM	20:00	6.66 pH	18.59 °C	89.33 µS/cm	0.08 mg/L	1.19 NTU	57.6 mV	21.10 ft	200.00 ml/min
3/3/2022 1:55 PM	25:00	6.68 pH	18.43 °C	90.51 µS/cm	0.08 mg/L	1.12 NTU	57.2 mV	21.10 ft	200.00 ml/min
3/3/2022 2:00 PM	30:00	6.69 pH	18.52 °C	91.96 µS/cm	0.09 mg/L	1.06 NTU	56.3 mV	21.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 11:31:04 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.87 ft Total Depth: 43.87 ft Initial Depth to Water: 28.64 ft	Pump Type: QED bladder pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4.3 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1211, FB-3 here at 1150

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 25	+/- 0.3	
3/4/2022 11:31 AM	00:00	5.69 pH	21.88 °C	0.00 µS/cm	8.79 mg/L	1.99 NTU	105.9 mV	28.64 ft	150.00 ml/min
3/4/2022 11:36 AM	05:00	5.36 pH	21.19 °C	1,391.6 µS/cm	6.54 mg/L	1.20 NTU	147.2 mV	28.80 ft	150.00 ml/min
3/4/2022 11:41 AM	10:00	5.24 pH	21.73 °C	1,395.0 µS/cm	4.57 mg/L	1.29 NTU	122.6 mV	28.80 ft	150.00 ml/min
3/4/2022 11:46 AM	15:00	5.27 pH	22.35 °C	1,383.0 µS/cm	4.66 mg/L	1.77 NTU	109.6 mV	28.90 ft	150.00 ml/min
3/4/2022 11:51 AM	20:00	5.28 pH	22.70 °C	1,398.6 µS/cm	4.78 mg/L	1.35 NTU	137.2 mV	28.90 ft	150.00 ml/min
3/4/2022 11:56 AM	25:00	5.27 pH	23.75 °C	1,398.2 µS/cm	4.77 mg/L	0.88 NTU	135.7 mV	29.00 ft	150.00 ml/min
3/4/2022 12:01 PM	30:00	5.25 pH	24.52 °C	1,381.2 µS/cm	4.40 mg/L	0.96 NTU	99.6 mV	29.00 ft	150.00 ml/min
3/4/2022 12:06 PM	35:00	5.24 pH	24.74 °C	1,375.3 µS/cm	4.14 mg/L	1.01 NTU	132.1 mV	29.00 ft	150.00 ml/min
3/4/2022 12:11 PM	40:00	5.23 pH	25.15 °C	1,373.2 µS/cm	4.00 mg/L	0.92 NTU	134.7 mV	29.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 2:50:07 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.75 ft Total Depth: 71.75 ft Initial Depth to Water: 49.2 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 11875 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 9.5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1627, sunny 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/3/2022 2:50 PM	00:00	6.78 pH	20.35 °C	667.05 µS/cm	5.31 mg/L	3.98 NTU	14.2 mV	49.20 ft	125.00 ml/min
3/3/2022 2:55 PM	05:00	6.89 pH	19.11 °C	987.85 µS/cm	1.74 mg/L	1.14 NTU	-20.6 mV	50.70 ft	125.00 ml/min
3/3/2022 3:00 PM	10:00	6.96 pH	18.55 °C	1,059.6 µS/cm	0.79 mg/L	2.20 NTU	-31.8 mV	51.40 ft	125.00 ml/min
3/3/2022 3:05 PM	15:00	6.98 pH	18.66 °C	1,005.4 µS/cm	0.49 mg/L	2.01 NTU	-43.2 mV	52.40 ft	125.00 ml/min
3/3/2022 3:10 PM	20:00	6.96 pH	18.57 °C	949.09 µS/cm	0.43 mg/L	1.79 NTU	-41.0 mV	53.20 ft	125.00 ml/min
3/3/2022 3:15 PM	25:00	6.95 pH	18.97 °C	930.67 µS/cm	0.53 mg/L	1.43 NTU	-36.0 mV	53.70 ft	125.00 ml/min
3/3/2022 3:20 PM	30:00	6.94 pH	19.21 °C	912.58 µS/cm	0.64 mg/L	1.47 NTU	-32.6 mV	54.10 ft	125.00 ml/min
3/3/2022 3:25 PM	35:00	6.94 pH	19.25 °C	905.63 µS/cm	0.67 mg/L	1.80 NTU	-28.3 mV	54.30 ft	125.00 ml/min
3/3/2022 3:30 PM	40:00	6.93 pH	19.20 °C	895.27 µS/cm	0.68 mg/L	1.74 NTU	-24.2 mV	54.70 ft	125.00 ml/min
3/3/2022 3:35 PM	45:00	6.93 pH	19.15 °C	884.55 µS/cm	0.67 mg/L	1.00 NTU	-21.1 mV	54.90 ft	125.00 ml/min
3/3/2022 3:40 PM	50:00	6.93 pH	19.58 °C	876.88 µS/cm	0.67 mg/L	0.93 NTU	-27.8 mV	55.10 ft	125.00 ml/min
3/3/2022 3:45 PM	55:00	6.92 pH	19.05 °C	860.98 µS/cm	0.54 mg/L	0.71 NTU	-18.5 mV	55.70 ft	125.00 ml/min
3/3/2022 3:50 PM	01:00:00	6.91 pH	18.72 °C	873.51 µS/cm	0.52 mg/L	0.67 NTU	-16.4 mV	56.30 ft	125.00 ml/min
3/3/2022 3:55 PM	01:05:00	6.91 pH	19.22 °C	851.21 µS/cm	0.48 mg/L	0.71 NTU	-15.0 mV	56.90 ft	125.00 ml/min
3/3/2022 4:00 PM	01:10:00	6.90 pH	19.28 °C	834.95 µS/cm	0.44 mg/L	0.65 NTU	-21.5 mV	57.50 ft	125.00 ml/min

3/3/2022 4:05 PM	01:15:00	6.90 pH	18.79 °C	822.22 µS/cm	0.41 mg/L	0.42 NTU	-14.1 mV	58.00 ft	125.00 ml/min
3/3/2022 4:10 PM	01:20:00	6.89 pH	18.84 °C	809.04 µS/cm	0.39 mg/L	0.67 NTU	-13.5 mV	58.30 ft	125.00 ml/min
3/3/2022 4:15 PM	01:25:00	6.88 pH	18.88 °C	793.86 µS/cm	0.39 mg/L	0.55 NTU	-13.5 mV	58.50 ft	125.00 ml/min
3/3/2022 4:20 PM	01:30:00	6.88 pH	18.88 °C	775.70 µS/cm	0.39 mg/L	0.89 NTU	-13.5 mV	58.60 ft	125.00 ml/min
3/3/2022 4:25 PM	01:35:00	6.88 pH	18.97 °C	760.59 µS/cm	0.42 mg/L	0.31 NTU	-13.6 mV	58.70 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 1:05:49 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.88 ft Total Depth: 43.88 ft Initial Depth to Water: 16.94 ft	Pump Type: QED bladder pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 5.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 29.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1350

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 25	+/- 0.3	
3/4/2022 1:05 PM	00:00	5.84 pH	40.63 °C	0.00 µS/cm	6.40 mg/L	6.11 NTU	193.6 mV	16.94 ft	125.00 ml/min
3/4/2022 1:10 PM	05:00	5.51 pH	25.51 °C	311.22 µS/cm	6.31 mg/L	5.43 NTU	5.0 mV	17.30 ft	125.00 ml/min
3/4/2022 1:15 PM	10:00	5.37 pH	24.36 °C	308.29 µS/cm	3.38 mg/L	5.20 NTU	52.6 mV	17.50 ft	125.00 ml/min
3/4/2022 1:20 PM	15:00	5.36 pH	24.04 °C	305.60 µS/cm	2.63 mg/L	5.33 NTU	87.4 mV	17.80 ft	125.00 ml/min
3/4/2022 1:25 PM	20:00	5.36 pH	23.66 °C	304.03 µS/cm	2.44 mg/L	5.28 NTU	66.4 mV	18.20 ft	125.00 ml/min
3/4/2022 1:30 PM	25:00	5.36 pH	21.67 °C	300.17 µS/cm	2.80 mg/L	5.92 NTU	89.8 mV	18.60 ft	125.00 ml/min
3/4/2022 1:35 PM	30:00	5.34 pH	20.97 °C	301.93 µS/cm	1.46 mg/L	6.78 NTU	89.8 mV	19.20 ft	125.00 ml/min
3/4/2022 1:40 PM	35:00	5.34 pH	21.03 °C	301.98 µS/cm	1.39 mg/L	5.64 NTU	89.5 mV	19.30 ft	125.00 ml/min
3/4/2022 1:45 PM	40:00	5.34 pH	21.07 °C	302.18 µS/cm	1.32 mg/L	4.92 NTU	89.8 mV	19.40 ft	125.00 ml/min
3/4/2022 1:50 PM	45:00	5.34 pH	21.06 °C	301.17 µS/cm	1.27 mg/L	4.66 NTU	90.3 mV	19.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 9:15:16 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.7 ft Total Depth: 53.7 ft Initial Depth to Water: 30.55 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 3900 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.65 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 0947, sunny 50s, second extra rad here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/4/2022 9:15 AM	00:00	6.07 pH	14.21 °C	88.43 µS/cm	6.14 mg/L	1.99 NTU	121.5 mV	30.55 ft	130.00 ml/min
3/4/2022 9:20 AM	05:00	5.75 pH	16.57 °C	80.81 µS/cm	4.59 mg/L	2.15 NTU	88.9 mV	31.10 ft	130.00 ml/min
3/4/2022 9:25 AM	10:00	5.72 pH	16.83 °C	78.46 µS/cm	4.28 mg/L	2.43 NTU	84.2 mV	31.20 ft	130.00 ml/min
3/4/2022 9:30 AM	15:00	5.71 pH	16.83 °C	77.63 µS/cm	4.13 mg/L	1.87 NTU	80.8 mV	31.20 ft	130.00 ml/min
3/4/2022 9:35 AM	20:00	5.73 pH	16.96 °C	79.80 µS/cm	4.02 mg/L	1.80 NTU	78.8 mV	31.20 ft	130.00 ml/min
3/4/2022 9:40 AM	25:00	5.75 pH	16.99 °C	81.59 µS/cm	4.00 mg/L	1.41 NTU	76.2 mV	31.20 ft	130.00 ml/min
3/4/2022 9:45 AM	30:00	5.74 pH	17.03 °C	82.57 µS/cm	4.03 mg/L	1.02 NTU	75.5 mV	31.20 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:14:21 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 13.04 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 11250 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collect at 1406, sunny 70s, first extra rad here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/3/2022 1:14 PM	00:00	4.42 pH	20.30 °C	403.85 µS/cm	2.45 mg/L	1.14 NTU	184.9 mV	13.04 ft	225.00 ml/min
3/3/2022 1:19 PM	05:00	4.40 pH	19.37 °C	400.53 µS/cm	1.74 mg/L	1.23 NTU	150.9 mV	13.20 ft	225.00 ml/min
3/3/2022 1:24 PM	10:00	4.39 pH	19.34 °C	406.92 µS/cm	1.32 mg/L	2.66 NTU	138.8 mV	13.20 ft	225.00 ml/min
3/3/2022 1:29 PM	15:00	4.39 pH	19.28 °C	402.36 µS/cm	1.20 mg/L	2.19 NTU	177.1 mV	13.30 ft	225.00 ml/min
3/3/2022 1:34 PM	20:00	4.39 pH	19.22 °C	401.85 µS/cm	1.22 mg/L	2.02 NTU	132.5 mV	13.30 ft	225.00 ml/min
3/3/2022 1:39 PM	25:00	4.39 pH	19.18 °C	408.24 µS/cm	1.16 mg/L	2.19 NTU	125.6 mV	13.30 ft	225.00 ml/min
3/3/2022 1:44 PM	30:00	4.38 pH	19.15 °C	401.66 µS/cm	1.07 mg/L	1.73 NTU	120.5 mV	13.30 ft	225.00 ml/min
3/3/2022 1:49 PM	35:00	4.38 pH	19.19 °C	403.11 µS/cm	1.01 mg/L	1.59 NTU	122.5 mV	13.30 ft	225.00 ml/min
3/3/2022 1:54 PM	40:00	4.39 pH	19.12 °C	404.23 µS/cm	1.22 mg/L	1.20 NTU	118.8 mV	13.30 ft	225.00 ml/min
3/3/2022 1:59 PM	45:00	4.39 pH	19.25 °C	401.03 µS/cm	1.16 mg/L	1.31 NTU	120.4 mV	13.30 ft	225.00 ml/min
3/3/2022 2:04 PM	50:00	4.39 pH	19.17 °C	403.06 µS/cm	1.19 mg/L	1.02 NTU	119.0 mV	13.30 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 10:15:21 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.83 ft Total Depth: 39.83 ft Initial Depth to Water: 17.05 ft	Pump Type: QED bladder pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 60s, sample time-1050

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 25	+/- 0.3	
3/4/2022 10:15 AM	00:00	6.54 pH	23.88 °C	0.00 µS/cm	8.46 mg/L	1.78 NTU	84.9 mV	17.05 ft	200.00 ml/min
3/4/2022 10:20 AM	05:00	5.20 pH	17.07 °C	294.18 µS/cm	2.11 mg/L	2.21 NTU	164.2 mV	17.30 ft	200.00 ml/min
3/4/2022 10:25 AM	10:00	5.20 pH	16.96 °C	289.82 µS/cm	1.19 mg/L	1.94 NTU	185.6 mV	17.30 ft	200.00 ml/min
3/4/2022 10:30 AM	15:00	5.20 pH	16.92 °C	286.25 µS/cm	0.65 mg/L	2.94 NTU	175.2 mV	17.30 ft	200.00 ml/min
3/4/2022 10:35 AM	20:00	5.20 pH	17.10 °C	283.79 µS/cm	0.53 mg/L	1.77 NTU	130.1 mV	17.30 ft	200.00 ml/min
3/4/2022 10:40 AM	25:00	5.21 pH	17.30 °C	283.71 µS/cm	0.49 mg/L	2.22 NTU	121.8 mV	17.30 ft	200.00 ml/min
3/4/2022 10:45 AM	30:00	5.21 pH	17.41 °C	283.93 µS/cm	0.46 mg/L	2.89 NTU	147.4 mV	17.30 ft	200.00 ml/min
3/4/2022 10:50 AM	35:00	5.21 pH	17.23 °C	282.31 µS/cm	0.45 mg/L	1.75 NTU	125.5 mV	17.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 1:41:38 PM

Project: Plant Wansley (2)

Operator Name: A Schnittker

Location Name: WCR(+0.1)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sampled at 1345 on 3-4-22. Sunny , 70s. Equipment blank here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
3/4/2022 1:41 PM	00:00	7.26 pH	21.38 °C	64.92 µS/cm	9.36 mg/L		108.7 mV	
3/4/2022 1:43 PM	02:00	7.26 pH	21.38 °C	65.70 µS/cm	9.56 mg/L	13.00 NTU	102.4 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 12:39:15 PM

Project: Plant Wansley

Operator Name: A Schnittker

Location Name: WCR(+1.9)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sampled at 1230 on 3-4-22. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
3/4/2022 12:39 PM	00:00	6.79 pH	19.15 °C	64.20 µS/cm	8.81 mg/L		99.1 mV	
3/4/2022 12:41 PM	02:00	6.88 pH	18.92 °C	65.46 µS/cm	9.11 mg/L	10.20 NTU	111.9 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 2:19:30 PM

Project: Plant Wansley

Operator Name: A Schnittker

Location Name: WCR(-0.6)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
3/4/2022 2:19 PM	00:00	7.29 pH	21.82 °C	87.05 µS/cm	9.15 mg/L	10.00 NTU	105.7 mV	
3/4/2022 2:21 PM	02:00	7.31 pH	21.27 °C	89.53 µS/cm	9.75 mg/L	14.10 NTU	118.0 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/7/2022 9:35:09 AM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.85 ft Total Depth: 42.85 ft Initial Depth to Water: 27.97 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Cloudy, 70s, sample time-1005

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
6/7/2022 9:35 AM	00:00	7.46 pH	25.33 °C	0.00 µS/cm	7.98 mg/L	2.07 NTU	100.2 mV	27.97 ft	150.00 ml/min
6/7/2022 9:40 AM	05:00	5.47 pH	23.43 °C	1,384.6 µS/cm	6.49 mg/L	1.15 NTU	136.1 mV	28.10 ft	150.00 ml/min
6/7/2022 9:45 AM	10:00	5.38 pH	22.44 °C	1,219.6 µS/cm	5.08 mg/L	1.05 NTU	138.3 mV	28.10 ft	150.00 ml/min
6/7/2022 9:50 AM	15:00	5.38 pH	22.43 °C	1,225.2 µS/cm	5.04 mg/L	0.71 NTU	104.9 mV	28.20 ft	150.00 ml/min
6/7/2022 9:55 AM	20:00	5.37 pH	22.00 °C	1,207.9 µS/cm	4.79 mg/L	0.55 NTU	120.3 mV	28.20 ft	150.00 ml/min
6/7/2022 10:00 AM	25:00	5.37 pH	21.75 °C	1,175.3 µS/cm	4.68 mg/L	0.83 NTU	98.8 mV	28.20 ft	150.00 ml/min
6/7/2022 10:05 AM	30:00	5.37 pH	21.51 °C	1,166.7 µS/cm	4.51 mg/L	0.91 NTU	115.8 mV	28.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/6/2022 1:05:02 PM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.72 ft Total Depth: 71.72 ft Initial Depth to Water: 49.63 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 40.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 190.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sunny, sample time 1605

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
6/6/2022 1:05 PM	00:00	5.67 pH	31.96 °C	5.11 µS/cm	7.11 mg/L	3.88 NTU	291.8 mV	49.63 ft	225.00 ml/min
6/6/2022 1:10 PM	05:00	7.42 pH	26.28 °C	869.24 µS/cm	8.65 mg/L	2.19 NTU	157.8 mV	50.70 ft	225.00 ml/min
6/6/2022 1:15 PM	10:00	7.05 pH	23.65 °C	939.89 µS/cm	5.59 mg/L	3.06 NTU	98.0 mV	51.30 ft	225.00 ml/min
6/6/2022 1:20 PM	15:00	6.75 pH	21.31 °C	1,084.8 µS/cm	1.98 mg/L	3.26 NTU	-40.7 mV	51.80 ft	225.00 ml/min
6/6/2022 1:25 PM	20:00	6.74 pH	20.88 °C	1,112.3 µS/cm	1.41 mg/L	4.91 NTU	-54.4 mV	52.40 ft	225.00 ml/min
6/6/2022 1:30 PM	25:00	6.71 pH	20.28 °C	1,067.1 µS/cm	0.89 mg/L	8.43 NTU	-60.8 mV	52.90 ft	225.00 ml/min
6/6/2022 1:35 PM	30:00	6.67 pH	19.92 °C	977.23 µS/cm	0.74 mg/L	5.00 NTU	-41.9 mV	53.40 ft	225.00 ml/min
6/6/2022 1:40 PM	35:00	6.67 pH	19.87 °C	956.96 µS/cm	0.76 mg/L	7.37 NTU	-39.4 mV	55.40 ft	225.00 ml/min
6/6/2022 1:45 PM	40:00	6.66 pH	20.13 °C	958.31 µS/cm	0.78 mg/L	2.11 NTU	-37.5 mV	56.00 ft	225.00 ml/min
6/6/2022 1:50 PM	45:00	6.66 pH	20.00 °C	947.46 µS/cm	0.78 mg/L	2.07 NTU	-37.1 mV	56.80 ft	225.00 ml/min
6/6/2022 1:55 PM	50:00	6.65 pH	19.90 °C	937.87 µS/cm	0.77 mg/L	1.37 NTU	-37.7 mV	57.60 ft	225.00 ml/min
6/6/2022 2:00 PM	55:00	6.64 pH	19.90 °C	921.47 µS/cm	0.78 mg/L	1.90 NTU	-50.3 mV	58.20 ft	225.00 ml/min
6/6/2022 2:05 PM	01:00:00	6.65 pH	19.88 °C	909.40 µS/cm	1.02 mg/L	1.92 NTU	-51.9 mV	59.00 ft	225.00 ml/min
6/6/2022 2:10 PM	01:05:00	6.68 pH	20.21 °C	895.77 µS/cm	1.46 mg/L	2.43 NTU	-49.7 mV	59.70 ft	225.00 ml/min
6/6/2022 2:15 PM	01:10:00	6.68 pH	20.55 °C	884.54 µS/cm	1.80 mg/L	3.85 NTU	-46.7 mV	60.30 ft	225.00 ml/min

6/6/2022 2:20 PM	01:15:00	6.67 pH	20.86 °C	870.53 µS/cm	1.91 mg/L	3.36 NTU	-44.4 mV	60.80 ft	225.00 ml/min
6/6/2022 2:25 PM	01:20:00	6.67 pH	21.19 °C	864.37 µS/cm	1.94 mg/L	2.59 NTU	-32.5 mV	61.00 ft	225.00 ml/min
6/6/2022 2:30 PM	01:25:00	6.66 pH	21.55 °C	851.18 µS/cm	1.97 mg/L	2.22 NTU	-30.7 mV	61.20 ft	225.00 ml/min
6/6/2022 2:35 PM	01:30:00	6.68 pH	21.55 °C	878.22 µS/cm	2.09 mg/L	3.34 NTU	-33.0 mV	61.40 ft	225.00 ml/min
6/6/2022 2:40 PM	01:35:00	6.69 pH	21.86 °C	927.28 µS/cm	1.98 mg/L	2.01 NTU	-25.9 mV	61.60 ft	225.00 ml/min
6/6/2022 2:45 PM	01:40:00	6.69 pH	21.69 °C	972.18 µS/cm	1.70 mg/L	1.22 NTU	-21.6 mV	61.90 ft	225.00 ml/min
6/6/2022 2:50 PM	01:45:00	6.69 pH	21.28 °C	999.30 µS/cm	1.39 mg/L	1.39 NTU	-19.0 mV	62.20 ft	225.00 ml/min
6/6/2022 2:55 PM	01:50:00	6.70 pH	21.57 °C	1,023.0 µS/cm	1.18 mg/L	2.08 NTU	-12.4 mV	62.60 ft	225.00 ml/min
6/6/2022 3:00 PM	01:55:00	6.70 pH	22.18 °C	1,039.6 µS/cm	1.10 mg/L	3.11 NTU	-11.8 mV	62.90 ft	225.00 ml/min
6/6/2022 3:05 PM	02:00:00	6.71 pH	22.22 °C	1,035.9 µS/cm	1.02 mg/L	2.48 NTU	-17.1 mV	63.60 ft	225.00 ml/min
6/6/2022 3:10 PM	02:05:00	6.71 pH	22.18 °C	1,020.1 µS/cm	1.01 mg/L	2.63 NTU	-17.6 mV	64.20 ft	225.00 ml/min
6/6/2022 3:15 PM	02:10:00	6.71 pH	22.12 °C	1,021.2 µS/cm	1.01 mg/L	3.82 NTU	-13.5 mV	64.70 ft	225.00 ml/min
6/6/2022 3:20 PM	02:15:00	6.71 pH	22.15 °C	994.45 µS/cm	1.01 mg/L	3.21 NTU	-16.0 mV	65.00 ft	225.00 ml/min
6/6/2022 3:25 PM	02:20:00	6.70 pH	21.73 °C	970.40 µS/cm	0.96 mg/L	2.05 NTU	-19.8 mV	65.40 ft	225.00 ml/min
6/6/2022 3:30 PM	02:25:00	6.70 pH	21.60 °C	956.56 µS/cm	0.88 mg/L	1.29 NTU	-29.4 mV	65.40 ft	225.00 ml/min
6/6/2022 3:35 PM	02:30:00	6.69 pH	21.77 °C	952.22 µS/cm	0.80 mg/L	2.48 NTU	-33.1 mV	65.50 ft	225.00 ml/min
6/6/2022 3:40 PM	02:35:00	6.69 pH	23.34 °C	956.76 µS/cm	0.76 mg/L	2.28 NTU	-28.7 mV	65.50 ft	225.00 ml/min
6/6/2022 3:45 PM	02:40:00	6.69 pH	23.58 °C	957.68 µS/cm	0.74 mg/L	2.85 NTU	-29.9 mV	65.50 ft	225.00 ml/min
6/6/2022 3:50 PM	02:45:00	6.70 pH	23.65 °C	969.51 µS/cm	0.75 mg/L	2.07 NTU	-39.9 mV	65.50 ft	225.00 ml/min
6/6/2022 3:55 PM	02:50:00	6.70 pH	24.42 °C	964.94 µS/cm	0.79 mg/L	2.11 NTU	-34.8 mV	65.50 ft	225.00 ml/min
6/6/2022 4:00 PM	02:55:00	6.69 pH	24.80 °C	960.91 µS/cm	0.83 mg/L	2.77 NTU	-34.5 mV	65.50 ft	225.00 ml/min
6/6/2022 4:05 PM	03:00:00	6.69 pH	25.19 °C	962.00 µS/cm	0.88 mg/L	2.94 NTU	-33.3 mV	65.50 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/7/2022 10:30:25 AM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.99 ft Total Depth: 43.99 ft Initial Depth to Water: 19.4 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 12.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 64 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sunny, 80s, sample time -1210

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
6/7/2022 10:30 AM	00:00	6.11 pH	25.11 °C	186.86 µS/cm	7.97 mg/L	3.33 NTU	106.5 mV	19.40 ft	125.00 ml/min
6/7/2022 10:35 AM	05:00	5.53 pH	22.67 °C	329.58 µS/cm	3.77 mg/L	2.40 NTU	61.7 mV	19.90 ft	125.00 ml/min
6/7/2022 10:40 AM	10:00	5.45 pH	22.22 °C	293.39 µS/cm	2.66 mg/L	3.81 NTU	78.6 mV	20.50 ft	125.00 ml/min
6/7/2022 10:45 AM	15:00	5.44 pH	22.36 °C	293.14 µS/cm	2.51 mg/L	2.52 NTU	78.0 mV	20.90 ft	125.00 ml/min
6/7/2022 10:50 AM	20:00	5.43 pH	20.26 °C	270.48 µS/cm	1.94 mg/L	2.11 NTU	95.2 mV	21.60 ft	125.00 ml/min
6/7/2022 10:55 AM	25:00	5.42 pH	19.86 °C	272.77 µS/cm	2.00 mg/L	4.21 NTU	97.4 mV	22.00 ft	125.00 ml/min
6/7/2022 11:00 AM	30:00	5.41 pH	19.96 °C	269.39 µS/cm	1.59 mg/L	2.98 NTU	97.8 mV	22.70 ft	125.00 ml/min
6/7/2022 11:05 AM	35:00	5.41 pH	19.76 °C	266.94 µS/cm	1.42 mg/L	3.21 NTU	98.3 mV	23.20 ft	125.00 ml/min
6/7/2022 11:10 AM	40:00	5.41 pH	19.86 °C	266.86 µS/cm	1.30 mg/L	2.07 NTU	99.8 mV	23.90 ft	125.00 ml/min
6/7/2022 11:15 AM	45:00	5.41 pH	20.18 °C	267.89 µS/cm	1.24 mg/L	3.05 NTU	83.2 mV	24.00 ft	125.00 ml/min
6/7/2022 11:20 AM	50:00	5.41 pH	20.47 °C	265.91 µS/cm	1.22 mg/L	3.75 NTU	81.5 mV	24.20 ft	125.00 ml/min
6/7/2022 11:25 AM	55:00	5.41 pH	20.45 °C	265.64 µS/cm	1.20 mg/L	1.86 NTU	81.0 mV	24.40 ft	125.00 ml/min
6/7/2022 11:30 AM	01:00:00	5.41 pH	20.66 °C	266.50 µS/cm	1.20 mg/L	1.28 NTU	80.3 mV	24.70 ft	125.00 ml/min
6/7/2022 11:35 AM	01:05:00	5.41 pH	20.41 °C	265.23 µS/cm	1.19 mg/L	1.20 NTU	80.2 mV	24.80 ft	125.00 ml/min
6/7/2022 11:40 AM	01:10:00	5.41 pH	20.65 °C	266.87 µS/cm	1.18 mg/L	1.49 NTU	79.8 mV	24.80 ft	125.00 ml/min

6/7/2022 11:45 AM	01:15:00	5.41 pH	20.32 °C	266.13 µS/cm	1.18 mg/L	1.84 NTU	94.0 mV	24.80 ft	125.00 ml/min
6/7/2022 11:50 AM	01:20:00	5.41 pH	20.13 °C	265.52 µS/cm	1.18 mg/L	2.01 NTU	81.3 mV	24.80 ft	125.00 ml/min
6/7/2022 11:55 AM	01:25:00	5.41 pH	20.13 °C	266.21 µS/cm	1.18 mg/L	2.22 NTU	79.7 mV	24.80 ft	125.00 ml/min
6/7/2022 12:00 PM	01:30:00	5.41 pH	20.17 °C	265.26 µS/cm	1.19 mg/L	1.92 NTU	93.0 mV	24.80 ft	125.00 ml/min
6/7/2022 12:05 PM	01:35:00	5.41 pH	20.16 °C	266.17 µS/cm	1.17 mg/L	1.11 NTU	80.4 mV	24.80 ft	125.00 ml/min
6/7/2022 12:10 PM	01:40:00	5.41 pH	20.30 °C	265.60 µS/cm	1.19 mg/L	1.14 NTU	92.9 mV	24.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/6/2022 2:30:11 PM

Project: Plant Wansley - Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.7 ft Total Depth: 53.7 ft Initial Depth to Water: 31.27 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 6.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 9 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 15:05. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
6/6/2022 2:30 PM	00:00	5.73 pH	19.20 °C	81.55 µS/cm	5.17 mg/L	2.92 NTU	163.5 mV	31.27 ft	150.00 ml/min
6/6/2022 2:35 PM	05:00	5.70 pH	18.92 °C	80.76 µS/cm	4.61 mg/L	2.89 NTU	128.8 mV	32.00 ft	150.00 ml/min
6/6/2022 2:40 PM	10:00	5.71 pH	18.97 °C	80.82 µS/cm	4.54 mg/L	2.83 NTU	122.0 mV	32.00 ft	150.00 ml/min
6/6/2022 2:45 PM	15:00	5.71 pH	19.01 °C	80.86 µS/cm	4.56 mg/L	2.77 NTU	120.5 mV	32.00 ft	150.00 ml/min
6/6/2022 2:50 PM	20:00	5.72 pH	18.87 °C	80.95 µS/cm	4.55 mg/L	2.46 NTU	119.2 mV	32.00 ft	150.00 ml/min
6/6/2022 2:55 PM	25:00	5.72 pH	18.98 °C	82.16 µS/cm	4.54 mg/L	2.18 NTU	119.0 mV	32.00 ft	150.00 ml/min
6/6/2022 3:00 PM	30:00	5.73 pH	19.23 °C	82.95 µS/cm	4.51 mg/L	1.81 NTU	119.9 mV	32.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/6/2022 12:50:30 PM

Project: Plant Wansley - Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 15.63 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1330. Cloudy, showers 70s. FB-1 here @ 1345.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
6/6/2022 12:50 PM	00:00	4.49 pH	20.39 °C	299.00 µS/cm	2.86 mg/L	18.30 NTU	192.5 mV	15.63 ft	225.00 ml/min
6/6/2022 12:55 PM	05:00	4.49 pH	19.23 °C	283.20 µS/cm	2.32 mg/L	11.70 NTU	159.5 mV	15.90 ft	225.00 ml/min
6/6/2022 1:00 PM	10:00	4.49 pH	19.01 °C	273.25 µS/cm	1.97 mg/L	9.97 NTU	148.2 mV	15.90 ft	225.00 ml/min
6/6/2022 1:05 PM	15:00	4.50 pH	19.01 °C	273.47 µS/cm	1.80 mg/L	6.24 NTU	141.9 mV	15.90 ft	225.00 ml/min
6/6/2022 1:10 PM	20:00	4.50 pH	18.94 °C	268.12 µS/cm	2.10 mg/L	5.48 NTU	137.6 mV	15.90 ft	225.00 ml/min
6/6/2022 1:15 PM	25:00	4.51 pH	18.99 °C	267.54 µS/cm	1.91 mg/L	4.84 NTU	135.2 mV	15.90 ft	225.00 ml/min
6/6/2022 1:20 PM	30:00	4.52 pH	19.01 °C	267.23 µS/cm	1.91 mg/L	3.08 NTU	133.4 mV	15.90 ft	225.00 ml/min
6/6/2022 1:25 PM	35:00	4.52 pH	19.01 °C	264.52 µS/cm	1.98 mg/L	2.37 NTU	132.6 mV	15.90 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/7/2022 9:50:26 AM

Project: Plant Wansley - Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.8 ft Total Depth: 39.83 ft Initial Depth to Water: 17.76 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1110. Overcast 70s. Dup-1 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
6/7/2022 9:50 AM	00:00	5.30 pH	18.88 °C	331.39 µS/cm	2.19 mg/L	40.60 NTU	201.1 mV	17.76 ft	200.00 ml/min
6/7/2022 9:55 AM	05:00	5.30 pH	18.03 °C	330.10 µS/cm	1.74 mg/L	37.90 NTU	221.6 mV	17.90 ft	200.00 ml/min
6/7/2022 10:00 AM	10:00	5.31 pH	17.94 °C	327.59 µS/cm	1.37 mg/L	35.10 NTU	209.0 mV	18.00 ft	200.00 ml/min
6/7/2022 10:05 AM	15:00	5.31 pH	17.85 °C	327.69 µS/cm	1.16 mg/L	27.40 NTU	201.3 mV	18.00 ft	200.00 ml/min
6/7/2022 10:10 AM	20:00	5.32 pH	17.85 °C	324.17 µS/cm	1.19 mg/L	22.20 NTU	162.4 mV	18.00 ft	200.00 ml/min
6/7/2022 10:15 AM	25:00	5.31 pH	17.84 °C	325.29 µS/cm	0.41 mg/L	19.60 NTU	181.8 mV	18.00 ft	200.00 ml/min
6/7/2022 10:20 AM	30:00	5.31 pH	17.88 °C	324.34 µS/cm	0.36 mg/L	15.40 NTU	178.8 mV	18.00 ft	200.00 ml/min
6/7/2022 10:25 AM	35:00	5.31 pH	17.92 °C	323.10 µS/cm	0.35 mg/L	14.10 NTU	175.6 mV	18.00 ft	200.00 ml/min
6/7/2022 10:30 AM	40:00	5.30 pH	17.91 °C	322.05 µS/cm	0.35 mg/L	13.90 NTU	173.5 mV	18.00 ft	200.00 ml/min
6/7/2022 10:35 AM	45:00	5.31 pH	17.99 °C	319.71 µS/cm	0.34 mg/L	11.10 NTU	145.2 mV	18.00 ft	200.00 ml/min
6/7/2022 10:40 AM	50:00	5.31 pH	17.99 °C	320.40 µS/cm	0.34 mg/L	9.61 NTU	164.0 mV	18.00 ft	200.00 ml/min
6/7/2022 10:45 AM	55:00	5.32 pH	18.06 °C	317.49 µS/cm	0.34 mg/L	7.41 NTU	139.6 mV	18.00 ft	200.00 ml/min
6/7/2022 10:50 AM	01:00:00	5.32 pH	18.08 °C	317.08 µS/cm	0.34 mg/L	6.34 NTU	135.7 mV	18.00 ft	200.00 ml/min
6/7/2022 10:55 AM	01:05:00	5.32 pH	18.07 °C	318.25 µS/cm	0.33 mg/L	5.28 NTU	154.7 mV	18.00 ft	200.00 ml/min
6/7/2022 11:00 AM	01:10:00	5.32 pH	18.28 °C	315.50 µS/cm	0.33 mg/L	5.13 NTU	133.8 mV	18.00 ft	200.00 ml/min

6/7/2022 11:05 AM	01:15:00	5.32 pH	18.19 °C	315.14 µS/cm	0.33 mg/L	4.80 NTU	130.8 mV	18.00 ft	200.00 ml/min
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Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/15/2022 12:40:47 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119 ft Total Depth: 129.86 ft Initial Depth to Water: 27.4 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 4 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1325. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/15/2022 12:40 PM	00:00	6.11 pH	28.53 °C	38.25 µS/cm	6.28 mg/L	3.97 NTU	91.2 mV	27.40 ft	100.00 ml/min
8/15/2022 12:45 PM	05:00	5.60 pH	26.00 °C	31.09 µS/cm	3.55 mg/L	3.29 NTU	83.1 mV	27.50 ft	100.00 ml/min
8/15/2022 12:50 PM	10:00	5.56 pH	23.12 °C	28.60 µS/cm	1.95 mg/L	3.39 NTU	71.8 mV	27.50 ft	100.00 ml/min
8/15/2022 12:55 PM	15:00	5.41 pH	23.48 °C	28.92 µS/cm	1.69 mg/L	3.38 NTU	82.1 mV	27.50 ft	100.00 ml/min
8/15/2022 1:00 PM	20:00	5.34 pH	22.63 °C	27.85 µS/cm	0.71 mg/L	3.67 NTU	78.3 mV	27.50 ft	100.00 ml/min
8/15/2022 1:05 PM	25:00	5.29 pH	21.86 °C	28.44 µS/cm	1.76 mg/L	3.97 NTU	63.9 mV	27.50 ft	100.00 ml/min
8/15/2022 1:10 PM	30:00	5.28 pH	21.87 °C	28.42 µS/cm	1.53 mg/L	4.23 NTU	58.8 mV	27.50 ft	100.00 ml/min
8/15/2022 1:15 PM	35:00	5.28 pH	21.88 °C	28.54 µS/cm	1.47 mg/L	4.46 NTU	58.2 mV	27.50 ft	100.00 ml/min
8/15/2022 1:20 PM	40:00	5.28 pH	22.00 °C	28.41 µS/cm	1.44 mg/L	3.47 NTU	58.9 mV	27.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2022 2:15:19 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92 ft Total Depth: 102.65 ft Initial Depth to Water: 9.62 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1450. Overcast 80s. FB-1 here at 1510.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/15/2022 2:15 PM	00:00	6.42 pH	23.02 °C	115.03 µS/cm	1.39 mg/L	3.37 NTU	59.8 mV	9.62 ft	100.00 ml/min
8/15/2022 2:20 PM	05:00	6.09 pH	20.77 °C	110.63 µS/cm	0.28 mg/L	3.84 NTU	52.5 mV	10.20 ft	100.00 ml/min
8/15/2022 2:25 PM	10:00	6.05 pH	20.57 °C	106.71 µS/cm	0.16 mg/L	3.21 NTU	53.3 mV	10.20 ft	100.00 ml/min
8/15/2022 2:30 PM	15:00	6.04 pH	20.57 °C	105.67 µS/cm	0.12 mg/L	2.94 NTU	52.7 mV	10.20 ft	100.00 ml/min
8/15/2022 2:35 PM	20:00	6.03 pH	20.48 °C	105.46 µS/cm	0.11 mg/L	2.22 NTU	52.4 mV	10.20 ft	100.00 ml/min
8/15/2022 2:40 PM	25:00	6.04 pH	20.51 °C	105.45 µS/cm	0.12 mg/L	1.27 NTU	51.3 mV	10.20 ft	100.00 ml/min
8/15/2022 2:45 PM	30:00	6.04 pH	20.39 °C	105.96 µS/cm	0.12 mg/L	0.89 NTU	50.7 mV	10.20 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 10:45:11 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 4.26 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1115, FD-01 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/16/2022 10:45 AM	00:00	6.29 pH	22.09 °C	29.53 µS/cm	6.66 mg/L	4.44 NTU	62.5 mV	4.26 ft	300.00 ml/min
8/16/2022 10:50 AM	05:00	5.65 pH	20.85 °C	28.73 µS/cm	6.04 mg/L	3.09 NTU	77.4 mV	4.30 ft	300.00 ml/min
8/16/2022 10:55 AM	10:00	5.55 pH	20.78 °C	28.54 µS/cm	5.79 mg/L	3.40 NTU	83.9 mV	4.40 ft	300.00 ml/min
8/16/2022 11:00 AM	15:00	5.51 pH	20.93 °C	28.23 µS/cm	5.71 mg/L	3.61 NTU	88.7 mV	4.40 ft	300.00 ml/min
8/16/2022 11:05 AM	20:00	5.50 pH	20.88 °C	28.14 µS/cm	5.69 mg/L	2.48 NTU	91.3 mV	4.40 ft	300.00 ml/min
8/16/2022 11:10 AM	25:00	5.47 pH	20.88 °C	28.05 µS/cm	5.71 mg/L	2.08 NTU	97.6 mV	4.40 ft	300.00 ml/min
8/16/2022 11:15 AM	30:00	5.46 pH	20.92 °C	27.81 µS/cm	5.70 mg/L	1.98 NTU	99.0 mV	4.40 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 9:50:14 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 53.9 ft Total Depth: 73.9 ft Initial Depth to Water: 6.85 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 63 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 17 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1020

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/16/2022 9:50 AM	00:00	6.68 pH	22.27 °C	13.91 µS/cm	8.42 mg/L	17.00 NTU	252.8 mV	6.85 ft	150.00 ml/min
8/16/2022 9:55 AM	05:00	6.32 pH	23.35 °C	130.62 µS/cm	0.36 mg/L	15.00 NTU	25.3 mV	7.10 ft	150.00 ml/min
8/16/2022 10:00 AM	10:00	6.61 pH	20.60 °C	111.50 µS/cm	0.04 mg/L	4.56 NTU	4.4 mV	7.50 ft	150.00 ml/min
8/16/2022 10:05 AM	15:00	6.85 pH	20.04 °C	112.57 µS/cm	0.02 mg/L	4.31 NTU	-23.0 mV	7.80 ft	150.00 ml/min
8/16/2022 10:10 AM	20:00	6.85 pH	19.41 °C	110.93 µS/cm	0.02 mg/L	2.37 NTU	-25.2 mV	8.20 ft	150.00 ml/min
8/16/2022 10:15 AM	25:00	6.91 pH	19.06 °C	111.11 µS/cm	0.02 mg/L	2.24 NTU	-43.2 mV	8.30 ft	150.00 ml/min
8/16/2022 10:20 AM	30:00	6.92 pH	19.00 °C	109.46 µS/cm	0.04 mg/L	2.56 NTU	-58.3 mV	8.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2022 12:35:17 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.6 ft Total Depth: 23.6 ft Initial Depth to Water: 18.09 ft	Pump Type: Peri pump Tubing Type: Poly Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 11.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 33.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1350

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/15/2022 12:35 PM	00:00	6.76 pH	34.43 °C	16.94 µS/cm	6.92 mg/L	30.00 NTU	231.6 mV	18.09 ft	150.00 ml/min
8/15/2022 12:40 PM	05:00	6.85 pH	35.63 °C	12.63 µS/cm	6.69 mg/L	29.00 NTU	229.5 mV	18.40 ft	150.00 ml/min
8/15/2022 12:45 PM	10:00	6.46 pH	26.61 °C	170.90 µS/cm	3.58 mg/L	25.00 NTU	75.1 mV	18.60 ft	150.00 ml/min
8/15/2022 12:50 PM	15:00	5.60 pH	23.38 °C	45.02 µS/cm	0.61 mg/L	6.89 NTU	64.2 mV	18.90 ft	150.00 ml/min
8/15/2022 12:55 PM	20:00	5.67 pH	23.16 °C	68.84 µS/cm	0.60 mg/L	8.94 NTU	62.8 mV	19.10 ft	150.00 ml/min
8/15/2022 1:00 PM	25:00	5.96 pH	23.50 °C	110.59 µS/cm	4.23 mg/L	15.00 NTU	79.6 mV	19.30 ft	150.00 ml/min
8/15/2022 1:05 PM	30:00	6.48 pH	25.46 °C	214.45 µS/cm	2.10 mg/L	16.00 NTU	67.3 mV	19.40 ft	150.00 ml/min
8/15/2022 1:10 PM	35:00	6.45 pH	26.43 °C	192.58 µS/cm	2.49 mg/L	15.00 NTU	64.6 mV	19.60 ft	150.00 ml/min
8/15/2022 1:15 PM	40:00	6.43 pH	24.61 °C	194.03 µS/cm	2.30 mg/L	10.00 NTU	67.1 mV	19.90 ft	150.00 ml/min
8/15/2022 1:20 PM	45:00	6.45 pH	26.09 °C	203.07 µS/cm	1.38 mg/L	9.04 NTU	64.7 mV	20.00 ft	150.00 ml/min
8/15/2022 1:25 PM	50:00	6.50 pH	25.97 °C	210.66 µS/cm	1.16 mg/L	8.51 NTU	65.3 mV	20.20 ft	150.00 ml/min
8/15/2022 1:30 PM	55:00	6.55 pH	26.38 °C	210.12 µS/cm	1.33 mg/L	7.23 NTU	65.0 mV	20.60 ft	150.00 ml/min
8/15/2022 1:36 PM	01:00:45	6.39 pH	30.96 °C	274.20 µS/cm	7.18 mg/L	6.99 NTU	133.5 mV	20.70 ft	150.00 ml/min
8/15/2022 1:41 PM	01:05:45	6.50 pH	25.71 °C	215.59 µS/cm	1.53 mg/L	6.78 NTU	68.7 mV	20.80 ft	150.00 ml/min
8/15/2022 1:46 PM	01:10:45	6.55 pH	25.56 °C	215.27 µS/cm	1.41 mg/L	5.31 NTU	67.6 mV	20.80 ft	150.00 ml/min

8/15/2022 1:51 PM	01:15:45	6.54 pH	26.10 °C	220.01 µS/cm	1.49 mg/L	4.69 NTU	65.5 mV	20.90 ft	150.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2022 2:25:18 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 30 ft Top of Screen: 74.5 ft Total Depth: 104.5 ft Initial Depth to Water: 18.87 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 4.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 16 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/15/2022 2:25 PM	00:00	7.57 pH	34.38 °C	123.75 µS/cm	6.32 mg/L	6.63 NTU	73.5 mV	18.87 ft	125.00 ml/min
8/15/2022 2:30 PM	05:00	7.37 pH	20.13 °C	135.51 µS/cm	0.71 mg/L	5.89 NTU	33.0 mV	19.40 ft	125.00 ml/min
8/15/2022 2:35 PM	10:00	7.53 pH	19.33 °C	137.90 µS/cm	0.22 mg/L	5.54 NTU	34.1 mV	19.70 ft	125.00 ml/min
8/15/2022 2:40 PM	15:00	7.64 pH	18.97 °C	138.20 µS/cm	0.12 mg/L	5.45 NTU	25.5 mV	19.90 ft	125.00 ml/min
8/15/2022 2:45 PM	20:00	7.69 pH	18.95 °C	138.76 µS/cm	0.11 mg/L	5.12 NTU	16.6 mV	20.00 ft	125.00 ml/min
8/15/2022 2:50 PM	25:00	7.73 pH	18.82 °C	139.11 µS/cm	0.12 mg/L	4.48 NTU	11.7 mV	20.10 ft	125.00 ml/min
8/15/2022 2:55 PM	30:00	7.75 pH	18.70 °C	139.45 µS/cm	0.13 mg/L	4.21 NTU	3.7 mV	20.20 ft	125.00 ml/min
8/15/2022 3:00 PM	35:00	7.76 pH	18.67 °C	139.50 µS/cm	0.15 mg/L	4.91 NTU	-8.1 mV	20.20 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 10:25:06 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 29.17 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 11.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1120. Sunny 80s. Problem with conductivity sensor, paused log, recalibrated and resumed.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/16/2022 10:25 AM	00:00	5.46 pH	19.15 °C	2,371.5 µS/cm	7.22 mg/L	0.94 NTU	96.1 mV	29.17 ft	225.00 ml/min
8/16/2022 10:30 AM	05:00	5.32 pH	18.31 °C	2,235.8 µS/cm	6.82 mg/L	0.52 NTU	86.9 mV	29.20 ft	225.00 ml/min
8/16/2022 10:35 AM	10:00	5.31 pH	18.12 °C	2,234.4 µS/cm	7.06 mg/L	0.63 NTU	84.7 mV	29.20 ft	225.00 ml/min
8/16/2022 10:40 AM	15:00	5.32 pH	18.03 °C	2,218.0 µS/cm	7.71 mg/L	0.94 NTU	86.5 mV	29.20 ft	225.00 ml/min
8/16/2022 10:45 AM	20:00	5.35 pH	18.05 °C	2,266.1 µS/cm	7.30 mg/L	1.11 NTU	83.1 mV	29.20 ft	225.00 ml/min
8/16/2022 10:50 AM	25:00	5.32 pH	17.99 °C	2,201.7 µS/cm	7.30 mg/L	1.34 NTU	84.1 mV	29.20 ft	225.00 ml/min
8/16/2022 10:59 AM	34:03	5.92 pH	21.46 °C	18.79 µS/cm	6.11 mg/L	1.68 NTU	75.8 mV	29.20 ft	225.00 ml/min
8/16/2022 11:04 AM	39:03	5.35 pH	18.17 °C	19.24 µS/cm	6.75 mg/L	1.33 NTU	69.3 mV	29.20 ft	225.00 ml/min
8/16/2022 11:09 AM	44:03	5.34 pH	18.12 °C	19.16 µS/cm	6.93 mg/L	0.65 NTU	72.0 mV	29.20 ft	225.00 ml/min
8/16/2022 11:14 AM	49:03	5.32 pH	18.22 °C	18.98 µS/cm	6.85 mg/L	0.62 NTU	74.7 mV	29.20 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 12:20:59 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 21.86 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 27 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1405. Sunny 80.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/16/2022 12:20 PM	00:00	6.79 pH	18.85 °C	93.10 µS/cm	2.14 mg/L	4.59 NTU	72.4 mV	21.86 ft	100.00 ml/min
8/16/2022 12:25 PM	05:00	6.97 pH	18.48 °C	95.92 µS/cm	1.95 mg/L	4.55 NTU	70.7 mV	23.90 ft	100.00 ml/min
8/16/2022 12:30 PM	10:00	7.04 pH	18.43 °C	98.45 µS/cm	1.77 mg/L	4.27 NTU	69.2 mV	24.10 ft	100.00 ml/min
8/16/2022 12:35 PM	15:00	7.02 pH	18.35 °C	100.70 µS/cm	1.57 mg/L	3.98 NTU	69.2 mV	24.10 ft	100.00 ml/min
8/16/2022 12:40 PM	20:00	6.96 pH	18.49 °C	99.85 µS/cm	1.58 mg/L	3.29 NTU	74.3 mV	24.10 ft	100.00 ml/min
8/16/2022 12:47 PM	26:27	6.73 pH	23.03 °C	116.56 µS/cm	3.03 mg/L	3.20 NTU	78.5 mV	24.10 ft	100.00 ml/min
8/16/2022 12:50 PM	29:03	6.82 pH	21.50 °C	105.33 µS/cm	1.56 mg/L	2.80 NTU	68.4 mV	24.10 ft	100.00 ml/min
8/16/2022 12:50 PM	29:33	6.84 pH	21.47 °C	105.55 µS/cm	1.51 mg/L	3.93 NTU	72.3 mV	24.10 ft	100.00 ml/min
8/16/2022 12:50 PM	29:58	6.83 pH	21.41 °C	103.99 µS/cm	1.50 mg/L	4.28 NTU	65.7 mV	24.10 ft	100.00 ml/min
8/16/2022 12:55 PM	34:58	6.84 pH	21.66 °C	102.59 µS/cm	1.32 mg/L	4.37 NTU	62.2 mV	24.10 ft	100.00 ml/min
8/16/2022 1:00 PM	39:58	6.91 pH	21.24 °C	100.02 µS/cm	1.07 mg/L	3.30 NTU	66.5 mV	24.10 ft	100.00 ml/min
8/16/2022 1:05 PM	44:58	6.85 pH	18.52 °C	102.25 µS/cm	0.86 mg/L	3.29 NTU	61.4 mV	24.10 ft	100.00 ml/min
8/16/2022 1:10 PM	49:58	6.77 pH	18.52 °C	101.22 µS/cm	0.79 mg/L	3.47 NTU	65.9 mV	24.10 ft	100.00 ml/min
8/16/2022 1:15 PM	54:58	6.70 pH	18.35 °C	98.53 µS/cm	0.62 mg/L	3.55 NTU	60.8 mV	24.10 ft	100.00 ml/min
8/16/2022 1:20 PM	59:58	6.64 pH	18.26 °C	96.41 µS/cm	0.70 mg/L	3.38 NTU	60.4 mV	24.10 ft	100.00 ml/min

8/16/2022 1:25 PM	01:04:58	6.57 pH	18.35 °C	93.04 µS/cm	0.95 mg/L	3.14 NTU	59.9 mV	24.10 ft	100.00 ml/min
8/16/2022 1:30 PM	01:09:58	6.51 pH	18.33 °C	88.16 µS/cm	1.30 mg/L	3.01 NTU	60.0 mV	24.10 ft	100.00 ml/min
8/16/2022 1:35 PM	01:14:58	6.41 pH	18.26 °C	83.69 µS/cm	1.61 mg/L	2.77 NTU	60.9 mV	24.10 ft	100.00 ml/min
8/16/2022 1:40 PM	01:19:58	6.33 pH	18.30 °C	78.70 µS/cm	1.91 mg/L	2.53 NTU	61.3 mV	24.10 ft	100.00 ml/min
8/16/2022 1:45 PM	01:24:58	6.30 pH	18.28 °C	76.38 µS/cm	2.16 mg/L	2.39 NTU	61.3 mV	24.10 ft	100.00 ml/min
8/16/2022 1:50 PM	01:29:58	6.24 pH	18.17 °C	73.30 µS/cm	2.25 mg/L	2.30 NTU	61.0 mV	24.10 ft	100.00 ml/min
8/16/2022 1:55 PM	01:34:58	6.20 pH	18.31 °C	71.30 µS/cm	2.33 mg/L	2.34 NTU	60.9 mV	24.10 ft	100.00 ml/min
8/16/2022 2:00 PM	01:39:58	6.19 pH	18.28 °C	70.49 µS/cm	2.44 mg/L	2.31 NTU	61.2 mV	24.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 3:15:04 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.63 ft Total Depth: 59.63 ft Initial Depth to Water: 6.15 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 15 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Cloudy, sample time-1555

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/16/2022 3:15 PM	00:00	7.29 pH	32.05 °C	0.41 µS/cm	7.16 mg/L	5.93 NTU	75.5 mV	6.15 ft	200.00 ml/min
8/16/2022 3:20 PM	05:00	7.33 pH	33.66 °C	0.39 µS/cm	6.95 mg/L	5.05 NTU	76.9 mV	6.30 ft	200.00 ml/min
8/16/2022 3:25 PM	10:00	6.72 pH	31.77 °C	656.13 µS/cm	2.51 mg/L	4.39 NTU	64.1 mV	6.50 ft	200.00 ml/min
8/16/2022 3:30 PM	15:00	5.87 pH	24.25 °C	677.08 µS/cm	0.45 mg/L	4.22 NTU	65.3 mV	7.00 ft	200.00 ml/min
8/16/2022 3:35 PM	20:00	5.37 pH	22.57 °C	671.19 µS/cm	1.00 mg/L	4.17 NTU	74.1 mV	7.30 ft	200.00 ml/min
8/16/2022 3:40 PM	25:00	5.31 pH	21.31 °C	676.90 µS/cm	1.08 mg/L	4.11 NTU	83.4 mV	7.40 ft	200.00 ml/min
8/16/2022 3:45 PM	30:00	5.36 pH	22.35 °C	684.64 µS/cm	0.97 mg/L	2.75 NTU	86.0 mV	7.40 ft	200.00 ml/min
8/16/2022 3:50 PM	35:00	5.44 pH	21.79 °C	667.55 µS/cm	0.80 mg/L	2.49 NTU	90.7 mV	7.40 ft	200.00 ml/min
8/16/2022 3:55 PM	40:00	5.40 pH	21.49 °C	673.06 µS/cm	0.88 mg/L	2.13 NTU	92.7 mV	7.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2022 9:25:50 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.1 ft Total Depth: 61.08 ft Initial Depth to Water: 20.25 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 41 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1000. Overcast 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/17/2022 9:25 AM	00:00	5.89 pH	21.13 °C	138.66 µS/cm	0.91 mg/L	5.16 NTU	103.9 mV	20.25 ft	100.00 ml/min
8/17/2022 9:30 AM	05:00	5.82 pH	20.66 °C	137.22 µS/cm	0.79 mg/L	4.74 NTU	97.2 mV	23.10 ft	100.00 ml/min
8/17/2022 9:36 AM	10:58	5.82 pH	20.48 °C	138.03 µS/cm	0.74 mg/L	4.60 NTU	68.8 mV	23.30 ft	100.00 ml/min
8/17/2022 9:41 AM	15:58	5.82 pH	20.62 °C	137.19 µS/cm	0.73 mg/L	3.86 NTU	70.5 mV	23.60 ft	100.00 ml/min
8/17/2022 9:46 AM	20:58	5.79 pH	20.75 °C	136.31 µS/cm	0.72 mg/L	4.12 NTU	61.0 mV	23.70 ft	100.00 ml/min
8/17/2022 9:51 AM	25:58	5.79 pH	21.05 °C	136.37 µS/cm	0.76 mg/L	3.03 NTU	60.2 mV	23.70 ft	100.00 ml/min
8/17/2022 9:56 AM	30:58	5.80 pH	22.13 °C	136.91 µS/cm	0.79 mg/L	4.65 NTU	55.8 mV	23.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/19/2022 9:15:06 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.9 ft Total Depth: 148.95 ft Initial Depth to Water: 21.61 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 143 ft Estimated Total Volume Pumped: 5.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 13 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Light rain, sample time-1010

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/19/2022 9:15 AM	00:00	6.77 pH	22.98 °C	10.32 µS/cm	8.32 mg/L	35.00 NTU	252.5 mV	21.61 ft	100.00 ml/min
8/19/2022 9:20 AM	05:00	6.33 pH	22.85 °C	75.94 µS/cm	7.49 mg/L	33.00 NTU	163.4 mV	22.00 ft	100.00 ml/min
8/19/2022 9:25 AM	10:00	6.29 pH	21.33 °C	53.28 µS/cm	4.00 mg/L	15.00 NTU	108.3 mV	22.00 ft	100.00 ml/min
8/19/2022 9:30 AM	15:00	6.15 pH	20.71 °C	53.78 µS/cm	1.81 mg/L	7.62 NTU	98.1 mV	22.30 ft	100.00 ml/min
8/19/2022 9:35 AM	20:00	6.12 pH	20.56 °C	52.74 µS/cm	1.56 mg/L	8.99 NTU	93.7 mV	22.60 ft	100.00 ml/min
8/19/2022 9:40 AM	25:00	6.11 pH	20.57 °C	52.23 µS/cm	2.38 mg/L	6.16 NTU	91.5 mV	22.60 ft	100.00 ml/min
8/19/2022 9:45 AM	30:00	6.13 pH	20.57 °C	52.03 µS/cm	3.27 mg/L	4.81 NTU	89.6 mV	22.60 ft	100.00 ml/min
8/19/2022 9:50 AM	35:00	6.14 pH	20.66 °C	53.30 µS/cm	3.85 mg/L	4.37 NTU	89.4 mV	22.70 ft	100.00 ml/min
8/19/2022 9:55 AM	40:00	6.15 pH	20.66 °C	55.18 µS/cm	4.13 mg/L	4.03 NTU	93.1 mV	22.70 ft	100.00 ml/min
8/19/2022 10:00 AM	45:00	6.17 pH	20.59 °C	56.36 µS/cm	4.42 mg/L	4.51 NTU	92.9 mV	22.70 ft	100.00 ml/min
8/19/2022 10:05 AM	50:00	6.19 pH	20.74 °C	57.12 µS/cm	4.68 mg/L	4.18 NTU	92.9 mV	22.70 ft	100.00 ml/min
8/19/2022 10:10 AM	55:00	6.20 pH	20.86 °C	57.59 µS/cm	4.78 mg/L	4.45 NTU	90.5 mV	22.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 3:20:16 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.5 ft Total Depth: 49.5 ft Initial Depth to Water: 28.84 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 42 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1600. Sunny 80s. EB-05 @ 1510.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/16/2022 3:20 PM	00:00	6.41 pH	32.37 °C	27.99 µS/cm	5.45 mg/L	20.40 NTU	59.9 mV	28.84 ft	200.00 ml/min
8/16/2022 3:25 PM	05:00	5.55 pH	20.81 °C	26.93 µS/cm	6.89 mg/L	19.40 NTU	60.5 mV	32.30 ft	200.00 ml/min
8/16/2022 3:30 PM	10:00	5.53 pH	20.24 °C	27.26 µS/cm	6.59 mg/L	15.80 NTU	62.1 mV	32.30 ft	200.00 ml/min
8/16/2022 3:35 PM	15:00	5.54 pH	20.13 °C	27.77 µS/cm	6.45 mg/L	11.90 NTU	63.2 mV	32.30 ft	200.00 ml/min
8/16/2022 3:40 PM	20:00	5.55 pH	20.35 °C	28.37 µS/cm	6.47 mg/L	7.87 NTU	69.8 mV	32.30 ft	200.00 ml/min
8/16/2022 3:45 PM	25:00	5.55 pH	20.62 °C	28.80 µS/cm	6.55 mg/L	6.85 NTU	64.9 mV	32.30 ft	200.00 ml/min
8/16/2022 3:50 PM	30:00	5.56 pH	20.48 °C	29.12 µS/cm	6.63 mg/L	6.11 NTU	71.8 mV	32.30 ft	200.00 ml/min
8/16/2022 3:55 PM	35:00	5.56 pH	20.54 °C	29.49 µS/cm	6.79 mg/L	4.25 NTU	72.6 mV	32.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2022 9:35:10 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.6 ft Total Depth: 76.57 ft Initial Depth to Water: 28.42 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 38.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1200. Overcast 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/18/2022 9:35 AM	00:00	6.37 pH	18.79 °C	83.54 µS/cm	0.56 mg/L	116.00 NTU	37.1 mV	28.42 ft	275.00 ml/min
8/18/2022 9:40 AM	05:00	6.35 pH	19.50 °C	83.88 µS/cm	0.28 mg/L	110.00 NTU	30.7 mV	28.70 ft	275.00 ml/min
8/18/2022 9:45 AM	10:00	6.35 pH	20.32 °C	84.68 µS/cm	0.20 mg/L	101.00 NTU	26.4 mV	28.70 ft	275.00 ml/min
8/18/2022 9:50 AM	15:00	6.36 pH	20.57 °C	85.70 µS/cm	0.18 mg/L	99.00 NTU	22.5 mV	28.70 ft	275.00 ml/min
8/18/2022 9:55 AM	20:00	6.37 pH	20.74 °C	86.39 µS/cm	0.18 mg/L	93.70 NTU	19.8 mV	28.70 ft	275.00 ml/min
8/18/2022 10:00 AM	25:00	6.38 pH	20.88 °C	87.07 µS/cm	0.19 mg/L	84.20 NTU	17.4 mV	28.70 ft	275.00 ml/min
8/18/2022 10:05 AM	30:00	6.39 pH	21.24 °C	87.66 µS/cm	0.18 mg/L	61.90 NTU	14.8 mV	28.70 ft	275.00 ml/min
8/18/2022 10:10 AM	35:00	6.40 pH	21.12 °C	88.55 µS/cm	0.19 mg/L	45.30 NTU	12.4 mV	28.70 ft	275.00 ml/min
8/18/2022 10:15 AM	40:00	6.42 pH	21.27 °C	88.92 µS/cm	0.19 mg/L	31.90 NTU	10.4 mV	28.70 ft	275.00 ml/min
8/18/2022 10:20 AM	45:00	6.43 pH	19.41 °C	88.79 µS/cm	0.27 mg/L	25.30 NTU	11.4 mV	28.70 ft	275.00 ml/min
8/18/2022 10:25 AM	50:00	6.44 pH	19.41 °C	90.63 µS/cm	0.20 mg/L	15.10 NTU	9.4 mV	28.70 ft	275.00 ml/min
8/18/2022 10:30 AM	55:00	6.47 pH	19.15 °C	91.73 µS/cm	0.16 mg/L	11.20 NTU	5.9 mV	28.70 ft	275.00 ml/min
8/18/2022 10:35 AM	01:00:00	6.48 pH	18.98 °C	92.47 µS/cm	0.15 mg/L	9.83 NTU	5.0 mV	28.70 ft	275.00 ml/min
8/18/2022 10:40 AM	01:05:00	6.48 pH	18.99 °C	92.81 µS/cm	0.15 mg/L	8.17 NTU	3.7 mV	28.70 ft	275.00 ml/min
8/18/2022 10:45 AM	01:10:00	6.50 pH	18.92 °C	93.39 µS/cm	0.15 mg/L	7.43 NTU	2.5 mV	28.70 ft	275.00 ml/min

8/18/2022 10:50 AM	01:15:00	6.51 pH	18.88 °C	93.40 µS/cm	0.16 mg/L	8.08 NTU	1.3 mV	28.70 ft	275.00 ml/min
8/18/2022 10:55 AM	01:20:00	6.51 pH	18.82 °C	93.12 µS/cm	0.16 mg/L	6.28 NTU	0.8 mV	28.70 ft	275.00 ml/min
8/18/2022 11:00 AM	01:25:00	6.52 pH	18.83 °C	93.09 µS/cm	0.16 mg/L	6.37 NTU	-1.8 mV	28.70 ft	275.00 ml/min
8/18/2022 11:05 AM	01:30:00	6.52 pH	18.79 °C	92.68 µS/cm	0.16 mg/L	6.65 NTU	-2.4 mV	28.70 ft	275.00 ml/min
8/18/2022 11:10 AM	01:35:00	6.53 pH	18.68 °C	92.43 µS/cm	0.16 mg/L	6.02 NTU	-3.0 mV	28.70 ft	275.00 ml/min
8/18/2022 11:15 AM	01:40:00	6.53 pH	18.79 °C	92.15 µS/cm	0.16 mg/L	6.61 NTU	-3.7 mV	28.70 ft	275.00 ml/min
8/18/2022 11:20 AM	01:45:00	6.53 pH	18.73 °C	92.08 µS/cm	0.17 mg/L	5.97 NTU	-4.2 mV	28.70 ft	275.00 ml/min
8/18/2022 11:25 AM	01:50:00	6.53 pH	18.74 °C	91.87 µS/cm	0.17 mg/L	5.78 NTU	-2.0 mV	28.70 ft	275.00 ml/min
8/18/2022 11:30 AM	01:55:00	6.52 pH	18.70 °C	91.71 µS/cm	0.17 mg/L	5.67 NTU	-1.1 mV	28.70 ft	275.00 ml/min
8/18/2022 11:35 AM	02:00:00	6.52 pH	18.79 °C	91.61 µS/cm	0.17 mg/L	5.79 NTU	-1.4 mV	28.70 ft	275.00 ml/min
8/18/2022 11:40 AM	02:05:00	6.53 pH	18.93 °C	91.34 µS/cm	0.18 mg/L	5.35 NTU	-1.9 mV	28.70 ft	275.00 ml/min
8/18/2022 11:45 AM	02:10:00	6.53 pH	19.00 °C	91.17 µS/cm	0.18 mg/L	5.43 NTU	-2.4 mV	28.70 ft	275.00 ml/min
8/18/2022 11:50 AM	02:15:00	6.52 pH	18.84 °C	90.77 µS/cm	0.18 mg/L	5.34 NTU	-0.2 mV	28.70 ft	275.00 ml/min
8/18/2022 11:55 AM	02:20:00	6.52 pH	18.87 °C	90.67 µS/cm	0.19 mg/L	4.64 NTU	-0.5 mV	28.70 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2022 11:15:22 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 75.5 ft Total Depth: 95.55 ft Initial Depth to Water: 25.04 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 85 ft Estimated Total Volume Pumped: 10.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 81 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Cloudy, sample time-1237

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/18/2022 11:15 AM	00:00	5.41 pH	30.25 °C	803.90 µS/cm	6.58 mg/L	189.00 NTU	111.0 mV	25.04 ft	125.00 ml/min
8/18/2022 11:20 AM	05:00	6.51 pH	26.49 °C	58.10 µS/cm	7.54 mg/L	135.00 NTU	102.0 mV	25.60 ft	125.00 ml/min
8/18/2022 11:25 AM	10:00	6.26 pH	22.84 °C	49.03 µS/cm	3.29 mg/L	100.00 NTU	97.4 mV	25.90 ft	125.00 ml/min
8/18/2022 11:30 AM	15:00	6.13 pH	21.33 °C	51.03 µS/cm	2.94 mg/L	162.00 NTU	96.3 mV	26.40 ft	125.00 ml/min
8/18/2022 11:31 AM	15:41	6.12 pH	21.11 °C	40.85 µS/cm	3.14 mg/L	87.00 NTU	96.7 mV	26.80 ft	125.00 ml/min
8/18/2022 11:36 AM	20:41	6.16 pH	20.42 °C	50.47 µS/cm	2.40 mg/L	48.00 NTU	92.3 mV	27.30 ft	125.00 ml/min
8/18/2022 11:41 AM	25:41	6.16 pH	20.20 °C	49.82 µS/cm	2.46 mg/L	27.00 NTU	90.1 mV	27.60 ft	125.00 ml/min
8/18/2022 11:46 AM	30:41	6.14 pH	20.19 °C	49.69 µS/cm	2.64 mg/L	20.00 NTU	89.5 mV	27.70 ft	125.00 ml/min
8/18/2022 11:51 AM	35:41	6.15 pH	20.13 °C	49.54 µS/cm	2.57 mg/L	16.00 NTU	87.6 mV	27.90 ft	125.00 ml/min
8/18/2022 11:56 AM	40:41	6.14 pH	19.89 °C	49.32 µS/cm	2.59 mg/L	14.00 NTU	87.8 mV	28.10 ft	125.00 ml/min
8/18/2022 11:57 AM	41:58	6.15 pH	19.86 °C	48.99 µS/cm	2.60 mg/L	13.00 NTU	87.4 mV	28.30 ft	125.00 ml/min
8/18/2022 12:02 PM	46:58	6.15 pH	19.68 °C	49.47 µS/cm	2.63 mg/L	10.00 NTU	87.9 mV	28.50 ft	125.00 ml/min
8/18/2022 12:07 PM	51:58	6.15 pH	19.68 °C	49.55 µS/cm	2.63 mg/L	9.11 NTU	87.5 mV	28.60 ft	125.00 ml/min
8/18/2022 12:12 PM	56:58	6.14 pH	19.89 °C	49.64 µS/cm	2.68 mg/L	8.61 NTU	88.5 mV	28.60 ft	125.00 ml/min
8/18/2022 12:17 PM	01:01:58	6.13 pH	20.12 °C	49.33 µS/cm	2.68 mg/L	7.27 NTU	86.5 mV	28.60 ft	125.00 ml/min

8/18/2022 12:22 PM	01:06:58	6.14 pH	20.04 °C	49.47 µS/cm	2.72 mg/L	6.48 NTU	85.7 mV	28.60 ft	125.00 ml/min
8/18/2022 12:27 PM	01:11:58	6.14 pH	20.38 °C	49.57 µS/cm	2.71 mg/L	6.14 NTU	84.9 mV	28.60 ft	125.00 ml/min
8/18/2022 12:32 PM	01:16:58	6.14 pH	20.89 °C	49.60 µS/cm	2.72 mg/L	5.38 NTU	84.2 mV	28.60 ft	125.00 ml/min
8/18/2022 12:37 PM	01:21:58	6.15 pH	21.70 °C	49.35 µS/cm	2.75 mg/L	4.61 NTU	82.6 mV	28.60 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/19/2022 11:05:23 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33 ft Total Depth: 43.08 ft Initial Depth to Water: 25.54 ft	Pump Type: Peri pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 27.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Cloudy , sample time-1135

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/19/2022 11:05 AM	00:00	6.76 pH	22.34 °C	0.08 µS/cm	8.37 mg/L	8.97 NTU	74.3 mV	25.54 ft	150.00 ml/min
8/19/2022 11:10 AM	05:00	5.25 pH	21.50 °C	20.69 µS/cm	2.69 mg/L	6.88 NTU	95.4 mV	26.30 ft	150.00 ml/min
8/19/2022 11:15 AM	10:00	5.14 pH	21.02 °C	20.74 µS/cm	2.54 mg/L	6.32 NTU	99.0 mV	26.80 ft	150.00 ml/min
8/19/2022 11:20 AM	15:00	5.16 pH	20.66 °C	21.20 µS/cm	2.47 mg/L	4.49 NTU	99.0 mV	27.50 ft	150.00 ml/min
8/19/2022 11:25 AM	20:00	5.22 pH	20.71 °C	22.95 µS/cm	2.13 mg/L	4.29 NTU	98.3 mV	27.80 ft	150.00 ml/min
8/19/2022 11:30 AM	25:00	5.25 pH	20.88 °C	23.37 µS/cm	2.07 mg/L	3.50 NTU	97.3 mV	27.80 ft	150.00 ml/min
8/19/2022 11:35 AM	30:00	5.25 pH	20.93 °C	23.69 µS/cm	1.99 mg/L	3.21 NTU	96.5 mV	27.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2022 12:20:18 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.36 ft Total Depth: 53.36 ft Initial Depth to Water: 20.44 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 28 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1255. Overcast 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/17/2022 12:20 PM	00:00	6.75 pH	24.38 °C	170.11 µS/cm	7.44 mg/L	5.18 NTU	68.6 mV	20.44 ft	100.00 ml/min
8/17/2022 12:25 PM	05:00	7.23 pH	20.00 °C	188.44 µS/cm	2.85 mg/L	5.04 NTU	36.8 mV	22.70 ft	100.00 ml/min
8/17/2022 12:30 PM	10:00	7.42 pH	19.33 °C	180.07 µS/cm	3.22 mg/L	4.80 NTU	28.4 mV	22.80 ft	100.00 ml/min
8/17/2022 12:35 PM	15:00	7.46 pH	19.31 °C	175.94 µS/cm	4.34 mg/L	4.25 NTU	32.7 mV	22.80 ft	100.00 ml/min
8/17/2022 12:40 PM	20:00	7.50 pH	19.24 °C	175.26 µS/cm	4.31 mg/L	4.13 NTU	34.6 mV	22.80 ft	100.00 ml/min
8/17/2022 12:45 PM	25:00	7.51 pH	19.27 °C	174.55 µS/cm	4.44 mg/L	3.95 NTU	36.1 mV	22.80 ft	100.00 ml/min
8/17/2022 12:50 PM	30:00	7.54 pH	19.19 °C	173.99 µS/cm	4.55 mg/L	3.75 NTU	36.2 mV	22.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2022 11:06:19 AM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.8 ft Total Depth: 34.78 ft Initial Depth to Water: 19.96 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1140. Sunny 80s. FD-2 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/17/2022 11:06 AM	00:00	5.30 pH	19.33 °C	196.73 µS/cm	4.56 mg/L	6.14 NTU	72.9 mV	19.96 ft	250.00 ml/min
8/17/2022 11:11 AM	05:00	5.26 pH	18.03 °C	197.62 µS/cm	3.98 mg/L	6.04 NTU	73.2 mV	20.10 ft	250.00 ml/min
8/17/2022 11:16 AM	10:00	5.24 pH	17.90 °C	197.84 µS/cm	3.93 mg/L	5.60 NTU	86.9 mV	20.10 ft	250.00 ml/min
8/17/2022 11:21 AM	15:00	5.24 pH	17.90 °C	197.88 µS/cm	3.91 mg/L	4.12 NTU	76.3 mV	20.10 ft	250.00 ml/min
8/17/2022 11:26 AM	20:00	5.23 pH	17.81 °C	198.93 µS/cm	3.88 mg/L	2.83 NTU	78.2 mV	20.10 ft	250.00 ml/min
8/17/2022 11:31 AM	25:00	5.24 pH	17.99 °C	199.84 µS/cm	3.68 mg/L	2.55 NTU	90.4 mV	20.10 ft	250.00 ml/min
8/17/2022 11:36 AM	30:00	5.24 pH	17.81 °C	201.39 µS/cm	3.73 mg/L	2.57 NTU	79.0 mV	20.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 11:51:26 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.94 ft Total Depth: 95.94 ft Initial Depth to Water: 30.37 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 18.3 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1221

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/16/2022 11:51 AM	00:00	5.91 pH	24.92 °C	0.00 µS/cm	8.02 mg/L	31.00 NTU	64.7 mV	30.37 ft	200.00 ml/min
8/16/2022 11:56 AM	05:00	6.02 pH	18.91 °C	73.83 µS/cm	1.15 mg/L	27.00 NTU	74.2 mV	30.80 ft	200.00 ml/min
8/16/2022 12:01 PM	10:00	6.02 pH	18.52 °C	75.60 µS/cm	1.37 mg/L	8.42 NTU	70.5 mV	31.50 ft	200.00 ml/min
8/16/2022 12:06 PM	15:00	6.02 pH	18.47 °C	75.85 µS/cm	1.01 mg/L	6.29 NTU	67.6 mV	31.90 ft	200.00 ml/min
8/16/2022 12:11 PM	20:00	6.02 pH	18.44 °C	76.07 µS/cm	0.89 mg/L	3.54 NTU	66.5 mV	31.90 ft	200.00 ml/min
8/16/2022 12:16 PM	25:00	6.02 pH	18.37 °C	76.10 µS/cm	0.83 mg/L	2.58 NTU	65.7 mV	31.90 ft	200.00 ml/min
8/16/2022 12:21 PM	30:00	6.02 pH	18.39 °C	76.02 µS/cm	0.82 mg/L	2.16 NTU	65.2 mV	31.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2022 4:25:32 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.8 ft Total Depth: 94.84 ft Initial Depth to Water: 21.44 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 18 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1700. Sunny 90s. FB-03 here at 1635.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/17/2022 4:25 PM	00:00	6.83 pH	23.37 °C	130.66 µS/cm	5.81 mg/L	2.84 NTU	71.3 mV	21.44 ft	200.00 ml/min
8/17/2022 4:30 PM	05:00	6.59 pH	19.24 °C	119.31 µS/cm	1.40 mg/L	2.75 NTU	25.7 mV	22.90 ft	200.00 ml/min
8/17/2022 4:35 PM	10:00	6.59 pH	19.24 °C	111.94 µS/cm	0.77 mg/L	2.28 NTU	34.5 mV	22.90 ft	200.00 ml/min
8/17/2022 4:40 PM	15:00	6.59 pH	19.25 °C	114.53 µS/cm	0.66 mg/L	1.17 NTU	37.9 mV	22.90 ft	200.00 ml/min
8/17/2022 4:45 PM	20:00	6.59 pH	19.19 °C	113.98 µS/cm	0.40 mg/L	1.35 NTU	39.5 mV	22.90 ft	200.00 ml/min
8/17/2022 4:50 PM	25:00	6.59 pH	19.06 °C	114.78 µS/cm	0.37 mg/L	1.60 NTU	43.3 mV	22.90 ft	200.00 ml/min
8/17/2022 4:55 PM	30:00	6.60 pH	19.46 °C	116.16 µS/cm	0.42 mg/L	1.13 NTU	41.4 mV	22.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2022 9:40:09 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.87 ft Total Depth: 43.87 ft Initial Depth to Water: 28.46 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 5.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Sunny, sample time-1015

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/18/2022 9:40 AM	00:00	5.38 pH	23.28 °C	825.57 µS/cm	5.74 mg/L	6.32 NTU	135.9 mV	28.46 ft	150.00 ml/min
8/18/2022 9:45 AM	05:00	5.30 pH	23.21 °C	802.15 µS/cm	5.04 mg/L	4.80 NTU	127.1 mV	28.60 ft	150.00 ml/min
8/18/2022 9:50 AM	10:00	5.30 pH	23.55 °C	804.18 µS/cm	5.02 mg/L	3.11 NTU	112.2 mV	28.80 ft	150.00 ml/min
8/18/2022 9:55 AM	15:00	5.31 pH	23.98 °C	794.72 µS/cm	5.05 mg/L	2.09 NTU	114.5 mV	28.80 ft	150.00 ml/min
8/18/2022 10:00 AM	20:00	5.31 pH	23.96 °C	796.41 µS/cm	5.03 mg/L	2.58 NTU	105.9 mV	28.80 ft	150.00 ml/min
8/18/2022 10:05 AM	25:00	5.31 pH	23.92 °C	792.36 µS/cm	4.91 mg/L	2.42 NTU	104.6 mV	28.80 ft	150.00 ml/min
8/18/2022 10:10 AM	30:00	5.30 pH	23.93 °C	786.96 µS/cm	4.74 mg/L	1.94 NTU	109.2 mV	28.80 ft	150.00 ml/min
8/18/2022 10:15 AM	35:00	5.29 pH	24.85 °C	789.49 µS/cm	4.65 mg/L	1.29 NTU	103.4 mV	28.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/16/2022 1:20:48 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.73 ft Total Depth: 71.73 ft Initial Depth to Water: 50.38 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 6.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Cloudy, sample time 1440

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/16/2022 1:20 PM	00:00	6.44 pH	38.98 °C	0.10 µS/cm	6.09 mg/L	4.59 NTU	76.4 mV	50.38 ft	100.00 ml/min
8/16/2022 1:25 PM	05:00	6.80 pH	22.49 °C	794.02 µS/cm	3.62 mg/L	4.21 NTU	80.0 mV	51.20 ft	100.00 ml/min
8/16/2022 1:30 PM	10:00	6.74 pH	20.85 °C	820.57 µS/cm	2.59 mg/L	3.06 NTU	77.4 mV	51.80 ft	100.00 ml/min
8/16/2022 1:35 PM	15:00	6.71 pH	21.22 °C	795.60 µS/cm	2.55 mg/L	3.14 NTU	75.1 mV	52.40 ft	100.00 ml/min
8/16/2022 1:40 PM	20:00	6.69 pH	21.38 °C	777.27 µS/cm	2.57 mg/L	2.74 NTU	73.6 mV	52.80 ft	100.00 ml/min
8/16/2022 1:45 PM	25:00	6.71 pH	21.16 °C	728.50 µS/cm	3.12 mg/L	1.28 NTU	72.0 mV	53.40 ft	100.00 ml/min
8/16/2022 1:50 PM	30:00	6.73 pH	21.30 °C	711.34 µS/cm	3.53 mg/L	2.21 NTU	70.8 mV	53.80 ft	100.00 ml/min
8/16/2022 1:55 PM	35:00	6.74 pH	21.11 °C	706.76 µS/cm	3.79 mg/L	2.67 NTU	70.1 mV	54.20 ft	100.00 ml/min
8/16/2022 2:00 PM	40:00	6.74 pH	21.29 °C	702.95 µS/cm	3.96 mg/L	2.81 NTU	69.6 mV	54.60 ft	100.00 ml/min
8/16/2022 2:05 PM	45:00	6.74 pH	21.38 °C	701.00 µS/cm	3.99 mg/L	1.27 NTU	69.1 mV	55.10 ft	100.00 ml/min
8/16/2022 2:10 PM	50:00	6.73 pH	21.28 °C	697.57 µS/cm	4.01 mg/L	1.98 NTU	68.4 mV	55.60 ft	100.00 ml/min
8/16/2022 2:15 PM	55:00	6.73 pH	21.46 °C	696.77 µS/cm	4.02 mg/L	2.85 NTU	68.0 mV	56.00 ft	100.00 ml/min
8/16/2022 2:20 PM	01:00:00	6.72 pH	21.42 °C	692.85 µS/cm	4.04 mg/L	2.06 NTU	67.2 mV	56.30 ft	100.00 ml/min
8/16/2022 2:25 PM	01:05:00	6.72 pH	21.38 °C	688.35 µS/cm	4.07 mg/L	1.88 NTU	66.6 mV	56.50 ft	100.00 ml/min
8/16/2022 2:30 PM	01:10:00	6.72 pH	21.34 °C	682.70 µS/cm	4.03 mg/L	1.60 NTU	66.2 mV	56.60 ft	100.00 ml/min

8/16/2022 2:35 PM	01:15:00	6.72 pH	21.50 °C	680.42 µS/cm	4.08 mg/L	1.52 NTU	65.4 mV	56.70 ft	100.00 ml/min
8/16/2022 2:40 PM	01:20:00	6.72 pH	21.79 °C	678.31 µS/cm	4.11 mg/L	1.95 NTU	64.7 mV	56.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/19/2022 11:56:32 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.88 ft Total Depth: 43.88 ft Initial Depth to Water: 20.78 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 3.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 13.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:

Cloudy, sample time-1221

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
8/19/2022 11:56 AM	00:00	5.71 pH	23.02 °C	0.00 µS/cm	8.19 mg/L	6.54 NTU	65.1 mV	20.78 ft	125.00 ml/min
8/19/2022 12:01 PM	05:00	5.50 pH	23.02 °C	217.66 µS/cm	4.35 mg/L	2.38 NTU	105.5 mV	21.10 ft	125.00 ml/min
8/19/2022 12:06 PM	10:00	5.35 pH	21.95 °C	207.01 µS/cm	2.31 mg/L	2.08 NTU	106.9 mV	21.40 ft	125.00 ml/min
8/19/2022 12:11 PM	15:00	5.34 pH	21.73 °C	209.38 µS/cm	1.94 mg/L	1.98 NTU	109.8 mV	21.80 ft	125.00 ml/min
8/19/2022 12:16 PM	20:00	5.34 pH	21.64 °C	208.29 µS/cm	1.92 mg/L	3.70 NTU	106.1 mV	21.90 ft	125.00 ml/min
8/19/2022 12:21 PM	25:00	5.34 pH	21.77 °C	208.37 µS/cm	1.87 mg/L	2.73 NTU	105.6 mV	21.90 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2022 3:15:41 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.7 ft Total Depth: 53.7 ft Initial Depth to Water: 33.4 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 3.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 10 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1550. Overcast 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/17/2022 3:15 PM	00:00	5.69 pH	19.81 °C	68.18 µS/cm	5.06 mg/L	3.16 NTU	90.6 mV	33.40 ft	130.00 ml/min
8/17/2022 3:20 PM	05:00	5.65 pH	19.06 °C	67.97 µS/cm	4.32 mg/L	1.66 NTU	86.5 mV	34.20 ft	130.00 ml/min
8/17/2022 3:25 PM	10:00	5.63 pH	18.92 °C	67.51 µS/cm	4.17 mg/L	1.43 NTU	84.9 mV	34.20 ft	130.00 ml/min
8/17/2022 3:30 PM	15:00	5.63 pH	18.79 °C	67.90 µS/cm	4.14 mg/L	1.09 NTU	83.9 mV	34.20 ft	130.00 ml/min
8/17/2022 3:35 PM	20:00	5.64 pH	18.82 °C	68.46 µS/cm	4.13 mg/L	1.18 NTU	83.5 mV	34.20 ft	130.00 ml/min
8/17/2022 3:40 PM	25:00	5.64 pH	18.84 °C	68.94 µS/cm	4.13 mg/L	0.83 NTU	83.4 mV	34.20 ft	130.00 ml/min
8/17/2022 3:45 PM	30:00	5.64 pH	18.80 °C	69.14 µS/cm	4.13 mg/L	0.78 NTU	83.3 mV	34.20 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2022 12:30:13 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 17.87 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 8.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1305. Sunny 80s. FD-03 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/18/2022 12:30 PM	00:00	4.54 pH	20.16 °C	178.20 µS/cm	2.46 mg/L	3.39 NTU	99.0 mV	17.87 ft	275.00 ml/min
8/18/2022 12:35 PM	05:00	4.47 pH	20.17 °C	168.63 µS/cm	1.76 mg/L	3.12 NTU	123.2 mV	18.10 ft	275.00 ml/min
8/18/2022 12:40 PM	10:00	4.41 pH	19.89 °C	168.35 µS/cm	1.47 mg/L	2.87 NTU	120.1 mV	18.10 ft	275.00 ml/min
8/18/2022 12:45 PM	15:00	4.43 pH	19.77 °C	169.86 µS/cm	1.46 mg/L	2.14 NTU	121.7 mV	18.10 ft	275.00 ml/min
8/18/2022 12:50 PM	20:00	4.42 pH	19.71 °C	168.95 µS/cm	1.58 mg/L	1.85 NTU	117.2 mV	18.10 ft	275.00 ml/min
8/18/2022 12:55 PM	25:00	4.43 pH	19.77 °C	168.71 µS/cm	1.63 mg/L	1.47 NTU	114.7 mV	18.10 ft	275.00 ml/min
8/18/2022 1:00 PM	30:00	4.42 pH	19.83 °C	168.00 µS/cm	1.55 mg/L	1.04 NTU	113.0 mV	18.10 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2022 1:35:29 PM

Project: Plant Wansley Ash Pond

Operator Name: A. Schnittker

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.8 ft Total Depth: 39.83 ft Initial Depth to Water: 18.52 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 12 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
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Test Notes:

Sample time 1440. Overcast 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/17/2022 1:35 PM	00:00	5.85 pH	21.46 °C	256.42 µS/cm	3.03 mg/L	12.00 NTU	71.6 mV	18.52 ft	200.00 ml/min
8/17/2022 1:40 PM	05:00	5.32 pH	18.88 °C	273.61 µS/cm	1.35 mg/L	11.80 NTU	82.4 mV	18.90 ft	200.00 ml/min
8/17/2022 1:45 PM	10:00	5.30 pH	18.70 °C	275.66 µS/cm	0.44 mg/L	10.50 NTU	91.6 mV	18.90 ft	200.00 ml/min
8/17/2022 1:50 PM	15:00	5.29 pH	18.53 °C	275.35 µS/cm	0.33 mg/L	10.14 NTU	82.2 mV	18.90 ft	200.00 ml/min
8/17/2022 1:55 PM	20:00	5.29 pH	18.43 °C	274.11 µS/cm	0.29 mg/L	9.99 NTU	80.7 mV	18.90 ft	200.00 ml/min
8/17/2022 2:00 PM	25:00	5.29 pH	18.35 °C	273.86 µS/cm	0.27 mg/L	9.80 NTU	80.7 mV	18.90 ft	200.00 ml/min
8/17/2022 2:05 PM	30:00	5.28 pH	18.40 °C	273.00 µS/cm	0.27 mg/L	8.12 NTU	80.4 mV	18.90 ft	200.00 ml/min
8/17/2022 2:10 PM	35:00	5.28 pH	18.35 °C	272.98 µS/cm	0.27 mg/L	7.85 NTU	80.2 mV	18.90 ft	200.00 ml/min
8/17/2022 2:15 PM	40:00	5.28 pH	18.30 °C	271.66 µS/cm	0.27 mg/L	6.73 NTU	80.2 mV	18.90 ft	200.00 ml/min
8/17/2022 2:20 PM	45:00	5.28 pH	18.17 °C	271.39 µS/cm	0.27 mg/L	6.70 NTU	79.8 mV	18.90 ft	200.00 ml/min
8/17/2022 2:25 PM	50:00	5.28 pH	18.17 °C	270.39 µS/cm	0.27 mg/L	6.20 NTU	79.5 mV	18.90 ft	200.00 ml/min
8/17/2022 2:30 PM	55:00	5.28 pH	18.20 °C	269.54 µS/cm	0.26 mg/L	5.08 NTU	79.1 mV	18.90 ft	200.00 ml/min
8/17/2022 2:35 PM	01:00:00	5.28 pH	18.08 °C	269.01 µS/cm	0.26 mg/L	4.80 NTU	80.3 mV	18.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/18/2022 12:38:57 PM

Project: Plant Wansley

Operator Name: H Auld

Location Name: WCR(+0.1)	Pump Type: None Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 883530
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Test Notes:

Sampled at 1240. Cloudy 79 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
8/18/2022 12:38 PM	00:00	7.54 pH	26.29 °C	134.39 µS/cm	7.27 mg/L	26.20 NTU	44.7 mV	
8/18/2022 12:39 PM	01:00	7.51 pH	26.06 °C	136.62 µS/cm	7.32 mg/L	26.20 NTU	46.7 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2022 12:05:13 PM

Project: Plant Wansley

Operator Name: H Auld

Location Name: WCR(+1.9)	Pump Type: None Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 883530
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Test Notes:

Sampled at 1207. Cloudy 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
8/18/2022 12:05 PM	00:00	7.19 pH	27.48 °C	140.38 µS/cm	7.41 mg/L	30.50 NTU	28.2 mV	
8/18/2022 12:06 PM	01:00	7.21 pH	27.54 °C	141.37 µS/cm	7.41 mg/L	30.50 NTU	31.4 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2022 1:22:52 PM

Project: Plant Wansley

Operator Name: H Auld

Location Name: WCR(-0.6)	Pump Type: None Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 883530
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Test Notes:

Sampled at 1324. Cloudy 80 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
8/18/2022 1:22 PM	00:00	7.59 pH	26.52 °C	138.36 µS/cm	7.48 mg/L	21.50 NTU	58.0 mV	
8/18/2022 1:23 PM	01:00	7.56 pH	26.20 °C	141.27 µS/cm	7.56 mg/L	21.50 NTU	61.0 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 10/19/2022 11:04:41 AM

Project: Plant Wansley - Ash Pond

Operator Name: Taylor Goble

Location Name: WGWC-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59.57 ft Total Depth: 69.57 ft Initial Depth to Water: 32.52 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Pump Intake From TOC: 64 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 1.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1139. Sunny 47 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
10/19/2022 11:04 AM	00:00	7.72 pH	16.36 °C	1,275.4 µS/cm	5.32 mg/L	19.20 NTU	80.5 mV	32.56 ft	120.00 ml/min
10/19/2022 11:09 AM	05:00	7.00 pH	18.52 °C	1,141.8 µS/cm	5.29 mg/L	13.70 NTU	72.2 mV	32.99 ft	120.00 ml/min
10/19/2022 11:14 AM	10:00	6.67 pH	19.20 °C	1,133.5 µS/cm	5.10 mg/L	10.90 NTU	76.9 mV	33.18 ft	120.00 ml/min
10/19/2022 11:19 AM	15:00	6.50 pH	19.18 °C	1,132.0 µS/cm	4.64 mg/L	9.21 NTU	78.9 mV	33.33 ft	110.00 ml/min
10/19/2022 11:24 AM	20:00	6.40 pH	19.17 °C	1,128.4 µS/cm	4.00 mg/L	7.65 NTU	79.8 mV	33.39 ft	110.00 ml/min
10/19/2022 11:29 AM	25:00	6.34 pH	19.04 °C	1,127.3 µS/cm	3.86 mg/L	5.23 NTU	80.9 mV	33.45 ft	110.00 ml/min
10/19/2022 11:34 AM	30:00	6.31 pH	19.12 °C	1,123.8 µS/cm	3.59 mg/L	4.88 NTU	80.5 mV	33.52 ft	110.00 ml/min
10/19/2022 11:39 AM	35:00	6.27 pH	19.33 °C	1,135.7 µS/cm	3.56 mg/L	4.75 NTU	81.0 mV	33.60 ft	110.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 10/19/2022 12:39:13 PM

Project: Plant Wansley - Ash Pond

Operator Name: Taylor Goble

Location Name: WGWC-27 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.18 ft Total Depth: 42.18 ft Initial Depth to Water: 11.52 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 3300 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.47 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1309. Sunny 54 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
10/19/2022 12:39 PM	00:00	6.87 pH	22.73 °C	106.90 µS/cm	6.25 mg/L	5.99 NTU	71.8 mV	11.79 ft	120.00 ml/min
10/19/2022 12:44 PM	05:00	6.35 pH	20.79 °C	90.96 µS/cm	3.14 mg/L	5.50 NTU	79.9 mV	12.28 ft	120.00 ml/min
10/19/2022 12:49 PM	10:00	6.16 pH	20.44 °C	92.31 µS/cm	3.02 mg/L	3.89 NTU	85.2 mV	12.61 ft	120.00 ml/min
10/19/2022 12:54 PM	15:00	6.03 pH	21.05 °C	90.73 µS/cm	2.93 mg/L	3.35 NTU	88.1 mV	12.73 ft	100.00 ml/min
10/19/2022 12:59 PM	20:00	5.97 pH	20.99 °C	90.51 µS/cm	2.94 mg/L	3.27 NTU	91.0 mV	12.83 ft	100.00 ml/min
10/19/2022 1:04 PM	25:00	5.92 pH	20.27 °C	91.98 µS/cm	2.99 mg/L	3.03 NTU	96.2 mV	12.91 ft	100.00 ml/min
10/19/2022 1:09 PM	30:00	5.93 pH	20.33 °C	91.97 µS/cm	3.08 mg/L	2.99 NTU	97.4 mV	12.99 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Calibration Logs



Daily Instrument Calibration Log

SITE: H. Anid Plant Wansley
 TECHNICIAN: H. Anid
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 48832

INSTRUMENT S/N: 714344
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>21150206</u>	EXP. DATE: <u>5/22</u>
ID: <u>pH 7</u>	LOT #: <u>16F007</u>	EXP. DATE: <u>6/23</u>
ID: <u>pH 10</u>	LOT #: <u>16D257</u>	EXP. DATE: <u>4/23</u>
ID: <u>Conductivity</u>	LOT #: <u>16D949</u>	EXP. DATE: <u>4/22</u>
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>
ID:	LOT #:	EXP. DATE:
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1-11-22
 RDO: 100% sat. = 98.9 Midday pH check
 PH: 4.00 = 3.94 7.00 = 6.93 10.00 = 9.81 7.0 = 6.95
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 141.3 = 1610
 ORP (mV) 228 = 295

Calibration Date: 1-12-22
 RDO: 100% sat. = 100.67 Midday pH check
 PH: 4.00 = 4.41 7.00 = 7.21 10.00 = 10.78 7.0 = NA
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 141.3 = 1562
 ORP (mV) 228 = 242

only 1 well sampled

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Wansley AP
 TECHNICIAN: J. B. ...
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 267301

INSTRUMENT S/N: 714502
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>21070143</u>	EXP. DATE: <u>8/22</u>
ID: <u>pH 7</u>	LOT #: <u>21010066</u>	EXP. DATE: <u>8/22</u>
ID: <u>pH 10</u>	LOT #: <u>21080189</u>	EXP. DATE: <u>6/22</u>
ID: <u>Cond</u>	LOT #: <u>160949</u>	EXP. DATE: <u>4/22</u>
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>
ID: _____	LOT #: _____	EXP. DATE: _____
ID: _____	LOT #: _____	EXP. DATE: _____

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1/11/22
 RDO: 100% sat. = 101.7 *Midday pH check*
 PH: 4.00 = 4.17 7.00 = 7.30 10.00 = 9.40 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1.413 mS/cm = 1.220
 ORP (mV) 228 = 236.1

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wamsley
 TECHNICIAN: A Schmittler
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 850762
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: pH 4 LOT #: 00E1407 EXP. DATE: 9/22
 ID: pH 7 LOT #: 21010066 EXP. DATE: 8/22
 ID: pH 10 LOT #: 21010067 EXP. DATE: 2/22
 ID: Cond LOT #: 16D949 EXP. DATE: 4/22
 ID: ORP LOT #: 21140141 EXP. DATE: 8/22 **Midday pH check**
 ID: _____ LOT #: _____ EXP. DATE: _____ **Must be less than .10**
 ID: _____ LOT #: _____ EXP. DATE: _____ **(6.90-7.10 range)**
 Recalibrate if not within range

Calibration Date: 1/10/22
 RDO: 100% sat. = 99.98 **Midday pH check**
 PH: 4.00 = 4.09 7.00 = 6.99 10.00 = 10.16 7.0 = 6.98
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1.413 = 1796
 ORP (mV) 228. = 236.1

Calibration Date: 1/11/22
 RDO: 100% sat. = 105.1 **Midday pH check**
 PH: 4.00 = 4.04 7.00 = 7.06 10.00 = 10.19 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1366.9
 ORP (mV) 228 = 250

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: H. Ald
INSTRUMENT S/N: 110900012353
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: New P.E
10 NTU - LOT # A1201R EXP. DATE: 11/22
20 NTU - LOT # A1207 EXP. DATE: 11/22

Calibration Date: 1-11-22

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.1	NTU
20.0	20.5	NTU

Calibration Date: 1-12-22

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.4	NTU
20.0	20.2	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: Anna Schmittler

INSTRUMENT S/N: B 15030C039579
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI Water
10 NTU - LOT # A1062 EXP. DATE: 6/22
20 NTU - LOT # A0288 EXP. DATE: 6/22

Calibration Date: 1/10/22

Calibration Solution	Instrument Reading	
0.0	0.6	NTU
10.0	9.98	NTU
20.0	20.1	NTU

Calibration Date: 1/11/22

Calibration Solution	Instrument Reading	
0.0	0.4	NTU
10.0	10.1	NTU
20.0	19.8	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J. Branstetter

INSTRUMENT S/N: 120500017602
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # N/A EXP. DATE: P/F H₂O
10 NTU - LOT # A1201R EXP. DATE: 11/22
20 NTU - LOT # A1207 EXP. DATE: 11/22

Calibration Date: 11/11/22

Calibration Solution	Instrument Reading	
0.0	0.71	NTU
10.0	10.6	NTU
20.0	18.8	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	714302
Created	1/11/2022

Sensor	RDO
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Serial Number	713958
Last Calibrated	1/11/2022

Calibration Details

Slope	1.05467
Offset	0.00 mg/L

Calibration point 100%

Concentration	10.21 mg/L
Temperature	11.66 °C
Barometric Pressure	1,004.7 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	714302
Last Calibrated	1/11/2022

Calibration Details

Cell Constant	0.852
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
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Serial Number	712532
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21475
Last Calibrated	1/11/2022

Calibration Details

Total Calibration Points	3
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Calibration Point 1

pH of Buffer	4.00 pH
pH mV	113.6 mV
Temperature	5.88 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-59.4 mV
Temperature	8.42 °C

Calibration Point 3

pH of Buffer	10.12 pH
pH mV	-206.4 mV
Temperature	7.65 °C

Slope and Offset 1

Slope	-56.54 mV/pH
Offset	-56.0 mV

Slope and Offset 2

Slope	-48.05 mV/pH
Offset	-56.5 mV

ORP

ORP Solution	ZoBell's
Offset	32.4 mV
Temperature	10.83 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 714344
Created 1/11/2022

Sensor **RDO**

Serial Number 713940
Last Calibrated 12/16/2021

Calibration Details

Slope 1.088679
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.29 mg/L
Temperature 14.39 °C
Barometric Pressure 1,002.9 mbar

Sensor **Conductivity**

Serial Number 714344
Last Calibrated 1/11/2022

Calibration Details

Cell Constant 0.931
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 712534
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21438
Last Calibrated	1/11/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 122.1 mV
Temperature 14.49 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -48.4 mV
Temperature 14.42 °C

Calibration Point 3

pH of Buffer 10.08 pH
pH mV -213.0 mV
Temperature 13.32 °C

Slope and Offset 1

Slope -55.73 mV/pH
Offset -45.1 mV

Slope and Offset 2

Slope -54.49 mV/pH
Offset -45.2 mV

ORP

ORP Solution ZoBell's
Offset 47.8 mV
Temperature 12.61 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 714344
Created 1/12/2022

Sensor **RDO**

Serial Number 713940
Last Calibrated 1/12/2022

Calibration Details

Slope 1.091101
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.86 mg/L
Temperature 16.40 °C
Barometric Pressure 1,000.9 mbar

Sensor **Conductivity**

Serial Number 714344
Last Calibrated 1/12/2022

Calibration Details

Cell Constant 0.809
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 712534
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21438
Last Calibrated	1/12/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	99.2 mV
Temperature	14.30 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-56.3 mV
Temperature	11.52 °C

Calibration Point 3

pH of Buffer	10.12 pH
pH mV	-219.8 mV
Temperature	11.24 °C

Slope and Offset 1

Slope	-50.83 mV/pH
Offset	-53.3 mV

Slope and Offset 2

Slope	-53.42 mV/pH
Offset	-53.1 mV

ORP

ORP Solution	ZoBell's
Offset	52.8 mV
Temperature	11.13 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	850762
Created	1/10/2022

Sensor	RDO
Serial Number	849194
Last Calibrated	1/10/2022

Calibration Details

Slope	1.072061
Offset	0.00 mg/L

Calibration point 100%

Concentration	9.20 mg/L
Temperature	14.91 °C
Barometric Pressure	989.67 mbar

Sensor	Conductivity
Serial Number	850762
Last Calibrated	1/10/2022

Calibration Details

Cell Constant	0.879
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
Serial Number	850400
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21487
Last Calibrated	1/10/2022

Calibration Details

Total Calibration Points	3
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Calibration Point 1

pH of Buffer	4.00 pH
pH mV	138.4 mV
Temperature	16.05 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	-27.2 mV
Temperature	15.60 °C

Calibration Point 3

pH of Buffer	10.08 pH
pH mV	-191.5 mV
Temperature	16.09 °C

Slope and Offset 1

Slope	-54.84 mV/pH
Offset	-26.1 mV

Slope and Offset 2

Slope	-53.7 mV/pH
Offset	-26.1 mV

ORP

ORP Solution	ZoBell's
Offset	26.1 mV
Temperature	16.00 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	850762
Created	1/11/2022

Sensor	RDO
--------	------------

Serial Number	849194
Last Calibrated	1/11/2022

Calibration Details

Slope	1.020567
Offset	0.00 mg/L

Calibration point 100%

Concentration	9.60 mg/L
Temperature	15.82 °C
Barometric Pressure	1,002.1 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	850762
Last Calibrated	1/11/2022

Calibration Details

Cell Constant	12.427
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	850400
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21487
Last Calibrated	1/11/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 133.7 mV
Temperature 10.62 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -29.1 mV
Temperature 9.16 °C

Calibration Point 3

pH of Buffer 10.12 pH
pH mV -193.1 mV
Temperature 8.67 °C

Slope and Offset 1

Slope -53.18 mV/pH
Offset -25.9 mV

Slope and Offset 2

Slope -53.6 mV/pH
Offset -25.8 mV

ORP

ORP Solution ZoBell's
Offset 26.9 mV
Temperature 8.43 °C



Daily Instrument Calibration Log

SITE: Plant Waukeg A7
 TECHNICIAN: SBerryford
 WATER LEVEL: Split
 WATER LEVEL S/N: 267301
 INSTRUMENT S/N: 884189
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>21070193</u>	EXP. DATE: <u>8/22</u>
ID: <u>947</u>	LOT #: <u>21010060</u>	EXP. DATE: <u>8/22</u>
ID: <u>p4 10</u>	LOT #: <u>21680189</u>	EXP. DATE: <u>6/22</u>
ID: <u>Cond</u>	LOT #: <u>161492</u>	EXP. DATE: <u>8/22</u>
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>
ID:	LOT #:	EXP. DATE:
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 3/1/22

RDO: 100% sat. = 104 Midday pH check
 PH: 4.00 = 3.92 7.00 = 7.05 10.00 = 10.25 7.0 = 7.07
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1483
 ORP (mV) 228 = 244

Calibration Date: 3/3/22

RDO: 100% sat. = 94.4 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.06 10.00 = 10.10 7.0 = 7.02
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1450
 ORP (mV) 228 = 238

Calibration Date: 3/14/22

RDO: 100% sat. = 99.9 Midday pH check
 PH: 4.00 = 4.15 7.00 = 7.02 10.00 = 10.05 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1466
 ORP (mV) 228 = 241.8

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J Bradford

INSTRUMENT S/N: 16040C049767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # DI 120 EXP. DATE: NA
10 NTU - LOT # A1012 EXP. DATE: 4/22
20 NTU - LOT # A1013 EXP. DATE: 4/22

Calibration Date: 3/1/22

Calibration Solution	Instrument Reading	
0.0	<u>0.63</u>	NTU
10.0	<u>9.42</u>	NTU
20.0	<u>21.4</u>	NTU

Calibration Date: 3/3/22

Calibration Solution	Instrument Reading	
0.0	<u>0.51</u>	NTU
10.0	<u>9.72</u>	NTU
20.0	<u>20.7</u>	NTU

Calibration Date: 3/4/22

Calibration Solution	Instrument Reading	
0.0	<u>0.30</u>	NTU
10.0	<u>9.74</u>	NTU
20.0	<u>21.4</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley Ash Pond
 TECHNICIAN: Toby Johnson
 WATER LEVEL: Salinst
 WATER LEVEL S/N: 322101

INSTRUMENT S/N: 844244 843593
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: Conductivity LOT #: 166973 EXP. DATE: 7/22
 ID: ORP LOT #: 16K009 EXP. DATE: 7/22
 ID: PH4 LOT #: 166104 EXP. DATE: 7/23
 ID: PH7 LOT #: 16E081 EXP. DATE: 9/23
 ID: PH10 LOT #: 16F458 EXP. DATE: 6/23 Midday pH check
 ID: _____ LOT #: _____ EXP. DATE: _____ Must be less than .10
 ID: _____ LOT #: _____ EXP. DATE: _____ (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 2/28/22
 RDO: 100% sat. = 96.68 Midday pH check
 PH: 4.00 = 4.02 7.00 = 7.00 10.00 = 10.07 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 mS/cm = 1051.0
 ORP (mV) 240 = 237.7

First cal @ 1530

Calibration Date: 3/1/22
 RDO: 100% sat. = 104.33 Midday pH check
 PH: 4.00 = 4.03 7.00 = 7.07 10.00 = 10.11 7.0 =
 PH Recal (if needed): 4.00 = 4.03 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1617
 ORP (mV) 240 = 241.1

7.01

Calibration Date: 3/3/22
 RDO: 100% sat. = 107.51 Midday pH check
 PH: 4.00 = 4.04 7.00 = 6.95 10.00 = 10.03 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1509.0
 ORP (mV) 240 = 243.3

7.02

Calibration Date: 3/4/2022
 RDO: 100% sat. = 94.10 Midday pH check
 PH: 4.00 = 4.10 7.00 = 7.08 10.00 = 10.14 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1340.6
 ORP (mV) 240 = 245

7.01

Calibration Date: _____
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley Ash Pond
TECHNICIAN: Toby Johnson

INSTRUMENT S/N: 19010C073360
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # D.I EXP. DATE: New
10 NTU - LOT # A1013 EXP. DATE: 4/22
20 NTU - LOT # A1013 EXP. DATE: 4/22

Calibration Date: 2/28/2022

Calibration Solution	Instrument Reading	
0.0	0.08	NTU
10.0	9.60	NTU
20.0	19.4	NTU

Calibration Date: 3/1/2022

Calibration Solution	Instrument Reading	
0.0	0.10	NTU
10.0	10.2	NTU
20.0	20.3	NTU

Calibration Date: 3/3/2022

Calibration Solution	Instrument Reading	
0.0	0.14	NTU
10.0	10.1	NTU
20.0	21.4	NTU

Calibration Date: 3/4/2022

Calibration Solution	Instrument Reading	
0.0	0.12	NTU
10.0	10.2	NTU
20.0	19.2	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Wandoo AP
 TECHNICIAN: J. B. Stanford
 WATER LEVEL: Solmit
 WATER LEVEL S/N: 267304

INSTRUMENT S/N: 843593
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: pH 4 LOT #: 21470032 EXP. DATE: 4/23
 ID: pH 7 LOT #: 21380102 EXP. DATE: 4/23
 ID: pH 10 LOT #: 22080056 EXP. DATE: 4/23
 ID: Cond LOT #: 1618005 EXP. DATE: 1/1/22
 ID: ORP LOT #: 21140143 EXP. DATE: 4/23

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 6/6/22

RDO: 100% sat. = 99.48 Midday pH check
 PH: 4.00 = 4.08 7.00 = 7.06 10.00 = 9.68 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1547
 ORP (mV) 228 = 219.7

Calibration Date: 6/7/22

RDO: 100% sat. = 101.98 Midday pH check
 PH: 4.00 = 4.04 7.00 = 7.05 10.00 = 10.13 7.0 = 7.06
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1716
 ORP (mV) 228 = 230.8

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J. Brink

INSTRUMENT S/N: 12090C07719
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: 11/20
10 NTU - LOT # A2122 EXP. DATE: 8/23
20 NTU - LOT # A2122 EXP. DATE: 8/23

Calibration Date: 6/6/2022

Calibration Solution	Instrument Reading	
0.0	0.38	NTU
10.0	9.87	NTU
20.0	17.7	NTU

Calibration Date: 6/7/22

Calibration Solution	Instrument Reading	
0.0	6.37	NTU
10.0	10.2	NTU
20.0	21.1	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley AP
 TECHNICIAN: A Schmittlar
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 850724
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS: ID: pH 4 LOT #: 16H1124 EXP. DATE: 8/23
 ID: pH 7 LOT #: 21380102 EXP. DATE: 4/23
 ID: pH 10 LOT #: 166429 EXP. DATE: 7/23
 ID: Cond LOT #: 16H998 EXP. DATE: 8/22
 ID: ORP LOT #: 21140143 EXP. DATE: 4/23 **Midday pH check**
 ID: _____ LOT #: _____ EXP. DATE: _____ **Must be less than .10**
 ID: _____ LOT #: _____ EXP. DATE: _____ **(6.90-7.10 range)**
 ID: _____ LOT #: _____ EXP. DATE: _____ **Recalibrate if not within range**

Calibration Date: 6/6
 RDO: 100% sat. = 100.88 **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = 7.01
 PH Recal (if needed): 4.00 = 4.02 7.00 = 6.99 10.00 = 9.98 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1699
 ORP (mV) 228 = 215

Calibration Date: 6/7
 RDO: 100% sat. = 106.95 **Midday pH check**
 PH: 4.00 = 4.02 7.00 = 7.05 10.00 = 10.07 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1384
 ORP (mV) 228 = 232

Calibration Date:
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: A Schmittker
INSTRUMENT S/N: 13110CO29655
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI water
10 NTU - LOT # A2122 EXP. DATE: 8/23
20 NTU - LOT # A2124 EXP. DATE: 8/23

Calibration Date: 6/4

Calibration Solution	Instrument Reading	
0.0	0.92	NTU
10.0	10.3	NTU
20.0	19.0	NTU

Calibration Date: 6/7

Calibration Solution	Instrument Reading	
0.0	0.40	NTU
10.0	10.0	NTU
20.0	20.9	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Report

Instrument Aqua TROLL 400
Serial Number 850751
Created 8/19/2022

Sensor **RDO**

Serial Number 847914
Last Calibrated 8/19/2022

Calibration Details

Slope 1.057605
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.93 mg/L
Temperature 22.47 °C
Barometric Pressure 982.11 mbar

Sensor **Conductivity**

Serial Number 850751
Last Calibrated 8/19/2022

Calibration Details

Cell Constant 0.764
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850398
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21480
Last Calibrated	8/19/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	143.0 mV
Temperature	22.69 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-25.7 mV
Temperature	23.17 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-169.4 mV
Temperature	22.89 °C

Slope and Offset 1

Slope	-56.25 mV/pH
Offset	-25.7 mV

Slope and Offset 2

Slope	-47.91 mV/pH
Offset	-25.7 mV

ORP

ORP Solution	ZoBell's
Offset	31.1 mV
Temperature	23.03 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 850751
Created 8/18/2022

Sensor **RDO**

Serial Number 847914
Last Calibrated 8/18/2022

Calibration Details

Slope 1.057224
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.88 mg/L
Temperature 22.79 °C
Barometric Pressure 981.10 mbar

Sensor **Conductivity**

Serial Number 850751
Last Calibrated 8/18/2022

Calibration Details

Cell Constant 0.748
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850398
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21480
Last Calibrated	8/18/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	142.9 mV
Temperature	23.15 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-27.6 mV
Temperature	23.51 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-170.8 mV
Temperature	23.34 °C

Slope and Offset 1

Slope	-56.86 mV/pH
Offset	-27.6 mV

Slope and Offset 2

Slope	-47.7 mV/pH
Offset	-27.6 mV

ORP

ORP Solution	ZoBell's
Offset	31.1 mV
Temperature	23.52 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 850751
Created 8/16/2022

Sensor **RDO**

Serial Number 847914
Last Calibrated 8/16/2022

Calibration Details

Slope 1.057513
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.02 mg/L
Temperature 21.69 °C
Barometric Pressure 978.58 mbar

Sensor **Conductivity**

Serial Number 850751
Last Calibrated 8/16/2022

Calibration Details

Cell Constant 0.798
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850398
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21480
Last Calibrated	8/16/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	144.5 mV
Temperature	22.24 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-24.0 mV
Temperature	23.13 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-174.2 mV
Temperature	22.70 °C

Slope and Offset 1

Slope	-56.16 mV/pH
Offset	-24.0 mV

Slope and Offset 2

Slope	-50.06 mV/pH
Offset	-24.0 mV

ORP

ORP Solution	ZoBell's
Offset	29.7 mV
Temperature	22.90 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 850751
Created 8/15/2022

Sensor **RDO**

Serial Number 847914
Last Calibrated 8/15/2022

Calibration Details

Slope 1.064676
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.35 mg/L
Temperature 26.53 °C
Barometric Pressure 987.29 mbar

Sensor **Conductivity**

Serial Number 850751
Last Calibrated 8/15/2022

Calibration Details

Cell Constant 0.846
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 850398
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21480
Last Calibrated	8/15/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	151.8 mV
Temperature	27.78 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-22.2 mV
Temperature	27.71 °C

Calibration Point 3

pH of Buffer	9.96 pH
pH mV	-175.3 mV
Temperature	27.66 °C

Slope and Offset 1

Slope	-58.38 mV/pH
Offset	-22.8 mV

Slope and Offset 2

Slope	-51.55 mV/pH
Offset	-22.7 mV

ORP

ORP Solution	ZoBell's
Offset	27.7 mV
Temperature	27.66 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728566
Created 8/18/2022

Sensor **RDO**

Serial Number 932413
Last Calibrated 8/18/2022

Calibration Details

Slope 0.9803796
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.85 mg/L
Temperature 21.18 °C
Barometric Pressure 990.47 mbar

Sensor **Conductivity**

Serial Number 728566
Last Calibrated 8/18/2022

Calibration Details

Cell Constant 0.736
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 728330
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	20238
Last Calibrated	8/18/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	156.7 mV
Temperature	22.30 °C

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	-9.5 mV
Temperature	22.62 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-170.9 mV
Temperature	22.45 °C

Slope and Offset 1

Slope	-55.41 mV/pH
Offset	-9.5 mV

Slope and Offset 2

Slope	-52.91 mV/pH
Offset	-9.5 mV

ORP

ORP Solution	Zobell's
Offset	-4.6 mV
Temperature	22.89 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728566
Created 8/17/2022

Sensor **RDO**

Serial Number 932413
Last Calibrated 8/17/2022

Calibration Details

Slope 1.006784
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.41 mg/L
Temperature 22.40 °C
Barometric Pressure 989.56 mbar

Sensor **Conductivity**

Serial Number 728566
Last Calibrated 8/17/2022

Calibration Details

Cell Constant 0.764
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 728330
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	20238
Last Calibrated	8/17/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 166.2 mV
Temperature 22.97 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -7.0 mV
Temperature 23.57 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -173.2 mV
Temperature 23.38 °C

Slope and Offset 1

Slope -57.74 mV/pH
Offset -7.0 mV

Slope and Offset 2

Slope -55.39 mV/pH
Offset -7.0 mV

ORP

ORP Solution Zobell's
Offset -3.6 mV
Temperature 23.69 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728566
Created 8/16/2022

Sensor **RDO**

Serial Number 932413
Last Calibrated 8/16/2022

Calibration Details

Slope 1.003002
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.40 mg/L
Temperature 22.62 °C
Barometric Pressure 988.72 mbar

Sensor **Conductivity**

Serial Number 728566
Last Calibrated 8/16/2022

Calibration Details

Cell Constant 0.803
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 728330
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	20238
Last Calibrated	8/16/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 172.8 mV
Temperature 23.37 °C

Calibration Point 2

pH of Buffer 7.00 pH
pH mV -4.5 mV
Temperature 23.97 °C

Calibration Point 3

pH of Buffer 10.00 pH
pH mV -172.6 mV
Temperature 23.74 °C

Slope and Offset 1

Slope -59.1 mV/pH
Offset -4.5 mV

Slope and Offset 2

Slope -56.03 mV/pH
Offset -4.5 mV

ORP

ORP Solution Zobell's
Offset -3.5 mV
Temperature 24.22 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728566
Created 8/15/2022

Sensor **RDO**

Serial Number 932413
Last Calibrated 8/15/2022

Calibration Details

Slope 1.031669
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.40 mg/L
Temperature 27.99 °C
Barometric Pressure 989.51 mbar

Sensor **Conductivity**

Serial Number 728566
Last Calibrated 8/15/2022

Calibration Details

Cell Constant 0.799
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 728330
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	20238
Last Calibrated	8/15/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	172.5 mV
Temperature	27.71 °C

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-2.3 mV
Temperature	27.63 °C

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-171.9 mV
Temperature	27.62 °C

Slope and Offset 1

Slope	-58.66 mV/pH
Offset	-2.9 mV

Slope and Offset 2

Slope	-57.28 mV/pH
Offset	-2.9 mV

ORP

ORP Solution	Zobell's
Offset	-2.4 mV
Temperature	28.07 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 714293
Created 10/19/2022

Sensor **RDO**

Serial Number 879662
Last Calibrated 10/19/2022

Calibration Details

Slope 1.013667
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.83 mg/L
Temperature 14.64 °C
Barometric Pressure 993.66 mbar

Sensor **Conductivity**

Serial Number 714293
Last Calibrated 10/19/2022

Calibration Details

Cell Constant 0.943
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 712533
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21433
Last Calibrated	10/19/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 111.0 mV
Temperature 13.73 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -41.0 mV
Temperature 13.60 °C

Calibration Point 3

pH of Buffer 10.08 pH
pH mV -196.2 mV
Temperature 12.86 °C

Slope and Offset 1

Slope -49.67 mV/pH
Offset -38.0 mV

Slope and Offset 2

Slope -51.39 mV/pH
Offset -37.9 mV

ORP

ORP Solution ZoBell's
Offset 45.8 mV
Temperature 13.73 °C

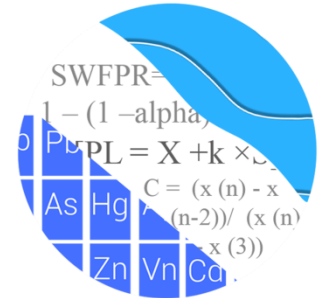
APPENDIX D

Statistical Analysis Reports

GROUNDWATER STATS CONSULTING

January 31, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
August 2022 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2022 Groundwater Detection and Assessment Monitoring Statistical summary for Georgia Power Company's Plant Wansley Ash Pond. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 and at least 8 background samples have been collected at each of the groundwater monitoring wells except for those discussed below. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** WGWA-1, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, and WGWA-18
- **Downgradient wells:** WGWC-8, WGWC-9, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25
- **Assessment wells:** WGWC-26D and WGWC-27

Note that wells WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 were first sampled in March 2021. These wells have been sampled for Appendix III

parameters and lithium a maximum of 7 times and for other Appendix IV parameters a maximum of 5 times. Prediction limits will be used to evaluate Appendix III constituents when a minimum of 8 samples is available; and confidence intervals will be constructed for Appendix IV parameters when a minimum of 4 samples is available. Assessment wells WGWC-26D and WGWC-27 were first sampled in October 2022 and data from these wells are plotted on time series and box plots and will be evaluated for Appendix IV constituents using confidence intervals when the minimum 4 samples are available.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The Coal Combustion Residuals (CCR) program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. Data from these wells are plotted on the time series and box plots, but no formal statistics were required.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case.

In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

During the background screening conducted by MacStat Consulting in 2017, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan for all constituents: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the most recent reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean

and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as "<" the original reporting limit on the data pages.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. While this was not required for this analysis, in some cases, the earlier portion of data record may require deselecting prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Statistical Evaluation of Appendix III Parameters – August 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present. It was noted that the reporting limit for boron, as provided by the laboratory, has fluctuated over the years from 0.05 mg/L to 0.1 mg/L. The most recent reporting limit in upgradient well data of 0.1 mg/L is substituted for all nondetects in the construction of interwell prediction limits as a result of substitution method discussed earlier.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When resamples confirm the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits and exceedances follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: WGWC-8, WGWC-9, and WGWC-16
- Calcium: WGWC-8
- Chloride: WGWC-8 and WGWC-16
- Fluoride: WGWC-9 and WGWC-15
- Sulfate: WGWC-8, WGWC-9, and WGWC-16
- TDS: WGWC-8

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. A summary of the Appendix III trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: WGWC-8 and WGWC-9
- Calcium: WGWC-8
- Chloride: WGWA-1 (upgradient) and WGWC-8
- Sulfate: WGWA-4 (upgradient), WGWC-8, and WGWC-9
- TDS: WGWC-8

Decreasing trends:

- Boron: WGWC-16
- Chloride: WGWA-5 (upgradient) and WGWC-16
- Sulfate: WGWC-16
- Fluoride: WGWC-9, WGWC-15, and WGWC-18 (upgradient)

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (Maximum Contaminant Limits or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using upper tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – August 2022

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs that have 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed using data through August 2022 for each of the Appendix IV constituents in each downgradient well with a minimum of 4 samples (Figure H). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The confidence intervals were compared to the GWPS established using the rules mentioned above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries and graphical results of the confidence intervals analyses follow this letter. Exceedances were noted for the following well/constituent pairs:

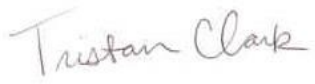
- Beryllium: WGWC-20
- Lithium: WGWC-19 and WGWC-20

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. No statistically significant trends were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Wansley Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Tristan Clark
Groundwater Analyst



Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/10/2022 11:36 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony (mg/L)

WGWC-10, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-24, WGWC-25

Arsenic (mg/L)

WGWC-19, WGWC-23, WGWC-25

Beryllium (mg/L)

WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19

Cadmium (mg/L)

WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-17, WGWC-19, WGWC-21, WGWC-23, WGWC-8, WGWC-9

Chromium (mg/L)

WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, WGWC-25, WGWC-8

Lead (mg/L)

WGWC-20, WGWC-21, WGWC-23, WGWC-25

Molybdenum (mg/L)

WGWC-16, WGWC-23, WGWC-24, WGWC-25, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17, WGWC-21, WGWC-25

Thallium (mg/L)

WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-20, WGWC-21, WGWC-23, WGWC-25, WGWC-8, WGWC-9

Interwell Prediction Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/17/2022	0.73	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/16/2022	2.3	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/17/2022	0.55	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/16/2022	83	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/17/2022	35	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/16/2022	110	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/17/2022	0.68	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/17/2022	0.9	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/17/2022	49	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/16/2022	220	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/17/2022	50	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/16/2022	580	Yes	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-10	0.1	n/a	8/19/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	8/16/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	8/18/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	8/18/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	8/19/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	8/17/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/17/2022	0.73	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-17	0.1	n/a	8/16/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	8/17/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/16/2022	2.3	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/17/2022	0.55	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-10	58	n/a	8/19/2022	7.3	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	8/16/2022	1.6	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	8/18/2022	13	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	8/18/2022	3.5	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	8/19/2022	0.64	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	8/17/2022	29	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	8/17/2022	20	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	8/16/2022	5.6	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	8/17/2022	9.8	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/16/2022	83	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-9	58	n/a	8/17/2022	9	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	8/19/2022	1.4	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	8/16/2022	3.5	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	8/18/2022	3	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	8/18/2022	0.98J	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	8/19/2022	2.1	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	8/17/2022	1.2	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/17/2022	35	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	8/16/2022	1.3	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	8/17/2022	2.8	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/16/2022	110	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	8/17/2022	3.2	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	8/19/2022	0.1	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	8/16/2022	0.1ND	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	8/18/2022	0.073J	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	8/18/2022	0.14	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	8/19/2022	0.1ND	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/17/2022	0.68	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	8/17/2022	0.062J	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	8/16/2022	0.06J	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/17/2022	0.28	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	8/16/2022	0.21	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/17/2022	0.9	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-10	7.96	4.96	8/19/2022	6.2	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	8/16/2022	5.56	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	8/18/2022	6.52	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	8/18/2022	6.15	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	8/19/2022	5.25	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	8/17/2022	7.54	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	8/17/2022	5.24	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	8/16/2022	6.02	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	8/17/2022	6.6	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	8/16/2022	5.4	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	8/17/2022	5.8	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	8/19/2022	1.6	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	8/16/2022	0.98J	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	8/18/2022	11	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	8/18/2022	1.7	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	8/19/2022	0.5ND	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	8/17/2022	14	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/17/2022	49	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	8/16/2022	3.4	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	8/17/2022	2.8	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/16/2022	220	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/17/2022	50	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	8/19/2022	63	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	8/16/2022	33	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	8/18/2022	88	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	8/18/2022	89	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	8/19/2022	26	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	8/17/2022	140	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/17/2022	170	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	8/16/2022	81	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	8/17/2022	93	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/16/2022	580	Yes	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	8/17/2022	150	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2

Trend Test - Prediction Limit Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:10 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.8639	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1779	103	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04664	80	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.43	144	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1093	89	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08795	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-40.16	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.81	146	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008295	-99	-98	Yes	23	17.39	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02839	-101	-98	Yes	23	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1222	-163	-98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.4648	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-78.09	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	124	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.615	88	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.72	139	74	Yes	19	0	n/a	n/a	0.01	NP

Trend Test - Prediction Limit Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:10 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	30	74	No	19	89.47	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-37	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8639	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1779	103	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04664	80	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.02925	62	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.347	-65	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.2578	-41	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	-10	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	-0.1781	-43	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.04614	-24	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.43	144	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1093	89	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.05644	-45	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.06404	71	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	0	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-49	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08795	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	11	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	12	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-40.16	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.81	146	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-25	-98	No	23	73.91	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008295	-99	-98	Yes	23	17.39	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01629	-96	-98	No	23	39.13	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-27	-98	No	23	69.57	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.005378	-75	-98	No	23	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	22	92	No	22	86.36	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.005428	-83	-98	No	23	8.696	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-31	-98	No	23	73.91	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02839	-101	-98	Yes	23	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1222	-163	-98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-15	-74	No	19	89.47	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.6083	-59	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.01752	-15	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	0	1	74	No	19	5.263	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.4648	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.03093	25	68	No	18	22.22	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-10	-74	No	19	73.68	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-78.09	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	124	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.615	88	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.857	60	74	No	19	21.05	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-2.704	-22	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	1.758	21	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.506	31	74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.44	35	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.549	15	68	No	18	11.11	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.43	53	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.199	13	74	No	19	15.79	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.72	139	74	Yes	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:30 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	135	n/a	n/a	97.78	n/a	n/a	0.0009833	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	175	n/a	n/a	81.14	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	175	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	175	n/a	n/a	93.71	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	159	n/a	n/a	100	n/a	n/a	0.0002871	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0063	n/a	n/a	n/a	175	n/a	n/a	94.86	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	174	n/a	n/a	46.55	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	172	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	183	n/a	n/a	45.9	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	159	n/a	n/a	88.05	n/a	n/a	0.0002871	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	165	n/a	n/a	50.3	n/a	n/a	0.0002111	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	143	n/a	n/a	90.21	n/a	n/a	0.0006523	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	174	n/a	n/a	90.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	175	n/a	n/a	94.86	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	175	n/a	n/a	92.57	n/a	n/a	NaN	NP Inter(NDs)

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

Confidence Interval - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	WGWC-20	0.01217	0.006673	0.004	Yes	5	0	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0559	0.04846	0.04	Yes	22	0	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	7	0	No	0.008	NP (normality)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00066	0.006	No	5	60	No	0.031	NP (NDs)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	5	40	No	0.031	NP (normality)
Antimony (mg/L)	WGWC-22	0.0009372	0.0005102	0.006	No	5	40	sqrt(x)	0.01	Param.
Antimony (mg/L)	WGWC-23	0.001873	0.0009935	0.006	No	5	40	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.011	0.002	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	17	70.59	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	22	77.27	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	22	86.36	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	22	86.36	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	22	45.45	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	22	68.18	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002061	0.001199	0.01	No	22	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	22	54.55	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00075	0.01	No	22	54.55	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.0008017	0.0001683	0.01	No	5	20	No	0.01	Param.
Arsenic (mg/L)	WGWC-21	0.0008712	0.0001568	0.01	No	5	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.001	0.00029	0.01	No	5	60	No	0.031	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.004016	-0.0005278	0.01	No	5	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-8	0.0009584	0.0005947	0.01	No	22	45.45	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	22	86.36	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.0407	0.03447	2	No	22	0	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04035	0.03263	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.0192	0.01534	2	No	22	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05505	0.04558	2	No	22	0	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04402	0.03045	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02486	0.02074	2	No	22	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05532	0.03863	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	22	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	22	36.36	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.005	0.00091	2	No	5	80	No	0.031	NP (NDs)
Barium (mg/L)	WGWC-21	0.01002	0.003896	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.04408	0.01872	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.009976	0.006704	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04555	0.02325	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4295	0.2985	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.005	0.0013	2	No	22	40.91	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00092	2	No	22	40.91	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00032	0.004	No	22	72.73	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	22	95.45	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01217	0.006673	0.004	Yes	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-21	0.0025	0.00022	0.004	No	5	80	No	0.031	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006801	0.0004959	0.004	No	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001267	0.0007093	0.004	No	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01709	0.002349	0.004	No	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	5	20	No	0.031	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002143	0.001616	0.004	No	22	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	22	40.91	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	20	95	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00047	0.005	No	20	35	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-20	0.0025	0.00026	0.005	No	5	80	No	0.031	NP (NDs)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	5	60	No	0.031	NP (NDs)
Cadmium (mg/L)	WGWC-24	0.0006362	0.00006777	0.005	No	5	0	No	0.01	Param.
Cadmium (mg/L)	WGWC-25	0.0025	0.00012	0.005	No	5	80	No	0.031	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002333	0.001748	0.1	No	22	13.64	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	22	81.82	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	22	86.36	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	22	95.45	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	22	95.45	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	22	95.45	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001502	0.0007639	0.013	No	22	4.545	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	22	36.36	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001055	0.0004729	0.013	No	22	4.545	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	22	77.27	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.009703	0.004978	0.013	No	22	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	22	95.45	No	0.01	NP (NDs)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	WGWC-16	0.00614	0.0009311	0.013	No	22	18.18	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001645	0.000772	0.013	No	22	9.091	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	22	45.45	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	5	60	No	0.031	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.001	0.00032	0.013	No	5	0	No	0.031	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	5	40	No	0.031	NP (normality)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	5	60	No	0.031	NP (NDs)
Cobalt (mg/L)	WGWC-24	0.1513	0.008309	0.013	No	5	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.005267	0.003453	0.013	No	5	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.00121	0.0004805	0.013	No	22	40.91	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	22	95.45	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4518	0.2003	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6138	0.2096	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5717	0.1977	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7747	0.4888	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8477	0.5607	10.4	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6275	0.3202	10.4	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.643	0.7585	10.4	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5462	0.1628	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5544	0.2064	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.628	0.4832	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.594	0.5994	10.4	No	5	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	8.514	1.79	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.562	-0.0486	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.617	0.4417	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.158	0.3646	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.15	1.42	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4246	0.1743	10.4	No	22	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1697	0.1238	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.055	0.047	4	No	23	56.52	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.098	0.07418	4	No	23	17.39	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2822	0.2025	4	No	23	4.348	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.057	0.048	4	No	23	65.22	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8616	0.7688	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.14	0.061	4	No	23	8.696	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1289	0.08093	4	No	23	4.348	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.374	0.3243	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.278	1.674	4	No	7	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	1.974	1.655	4	No	7	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.101	0.2836	4	No	7	0	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-23	0.09284	0.02916	4	No	7	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.242	0.3811	4	No	7	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.05	0.028	4	No	7	42.86	No	0.008	NP (normality)
Fluoride, total (mg/L)	WGWC-8	0.3302	0.1998	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.464	1.152	4	No	23	0	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.015	No	20	50	No	0.01	NP (normality)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	20	80	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	20	95	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	20	40	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00036	0.015	No	20	65	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	20	95	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	20	90	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	20	90	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	20	95	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.0004233	0.0001871	0.015	No	5	20	x^(1/3)	0.01	Param.
Lead (mg/L)	WGWC-24	0.001285	0.0001431	0.015	No	5	0	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	20	65	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	20	95	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01344	0.006792	0.04	No	22	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007642	0.006127	0.04	No	22	4.545	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	22	68.18	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	22	59.09	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007202	0.005689	0.04	No	22	9.091	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.009889	0.006284	0.04	No	22	4.545	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005584	0.004716	0.04	No	22	4.545	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0559	0.04846	0.04	Yes	22	0	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	7	0	No	0.008	NP (normality)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (mg/L)	WGWC-21	0.05467	0.02447	0.04	No	7	0	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0081	0.04	No	7	0	No	0.008	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	7	57.14	No	0.008	NP (NDs)
Lithium (mg/L)	WGWC-24	0.009212	0.004331	0.04	No	7	0	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.00462	0.003608	0.04	No	7	0	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	22	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03742	0.03208	0.04	No	22	0	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	18	77.78	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	18	88.89	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	18	77.78	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	18	88.89	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	18	77.78	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	18	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	18	88.89	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	18	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	18	94.44	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	22	90.91	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	22	90.91	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	22	72.73	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.0028	0.0013	0.1	No	22	13.64	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	22	95.45	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006165	0.003158	0.1	No	22	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.004867	0.002514	0.1	No	22	0	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	22	31.82	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	5	60	No	0.031	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.04627	0.03013	0.1	No	5	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	5	80	No	0.031	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.005705	0.003432	0.1	No	22	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.0102	0.005208	0.05	No	22	4.545	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.002682	0.001031	0.05	No	5	20	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-22	0.007844	0.002876	0.05	No	5	0	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.00257	0.00123	0.05	No	5	0	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	5	80	No	0.031	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	22	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002764	0.002216	0.05	No	22	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	22	95.45	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	22	95.45	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00016	0.002	No	22	50	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	22	45.45	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	22	95.45	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	5	80	No	0.031	NP (NDs)
Thallium (mg/L)	WGWC-24	0.0008165	0.0002875	0.002	No	5	0	No	0.01	Param.

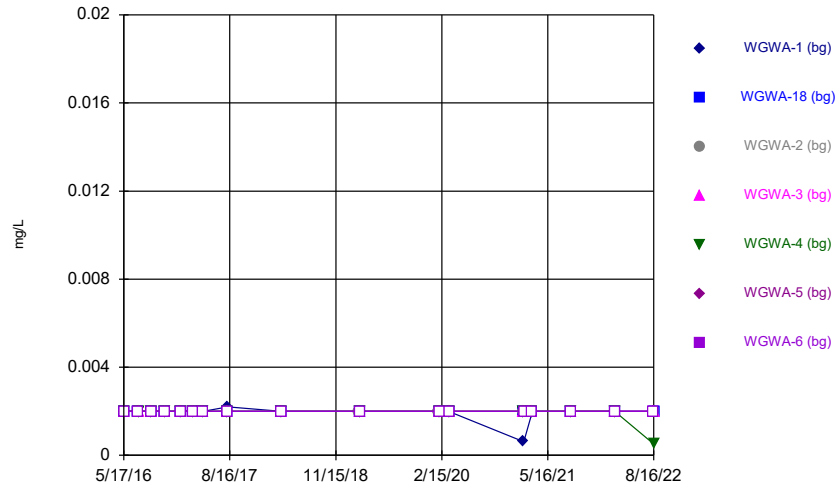
Trend Tests - Confidence Interval Exceedances - All Results (No Significant)

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 12/19/2022, 11:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	WGWA-1 (bg)	0	-30	-92	No	22	86.36	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-28	-92	No	22	86.36	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-25	-92	No	22	90.91	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-4	-87	No	21	95.24	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-5	-92	No	22	95.45	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-7	-92	No	22	95.45	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWC-20	-0.004104	-3	-12	No	5	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.00004412	-37	-87	No	21	38.1	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-18 (bg)	0	6	87	No	21	85.71	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-2 (bg)	0.00009435	17	87	No	21	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-3 (bg)	0	10	87	No	21	85.71	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-4 (bg)	0.0001411	43	87	No	21	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-5 (bg)	0	-2	-74	No	19	94.74	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-6 (bg)	0.0002048	52	81	No	20	5	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-7 (bg)	0	6	87	No	21	95.24	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-19	0.001537	69	92	No	22	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-20	0	3	18	No	7	0	n/a	n/a	0.01	NP

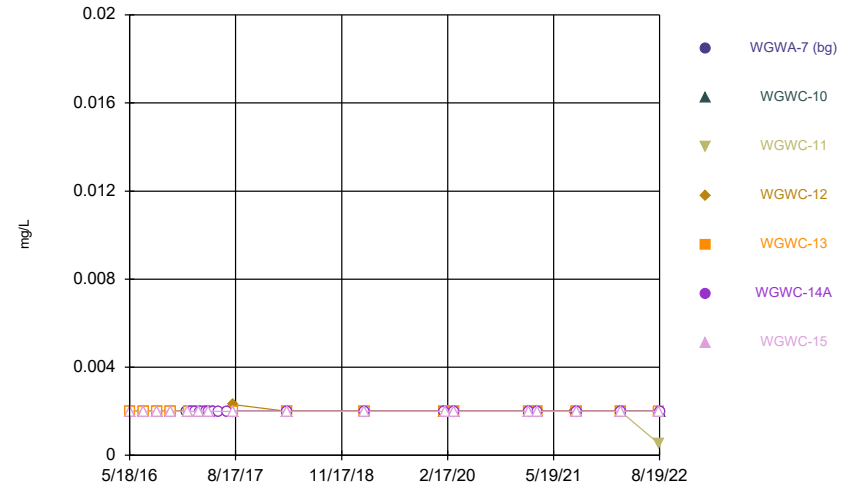
FIGURE A.

Time Series



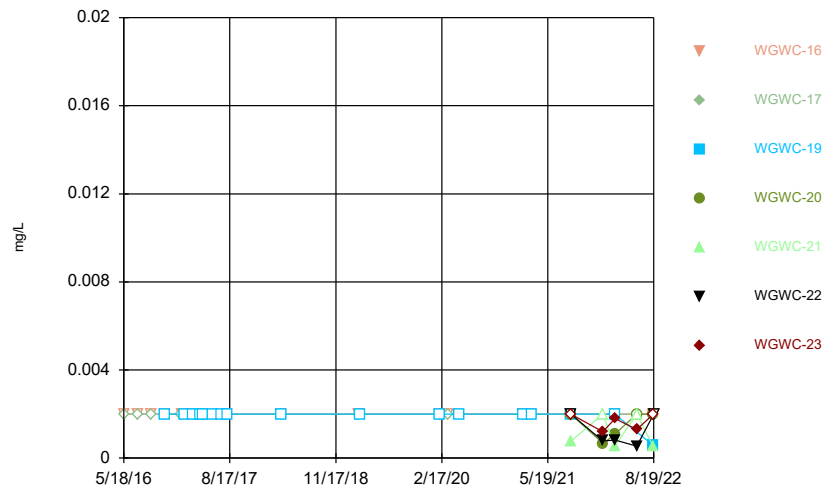
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



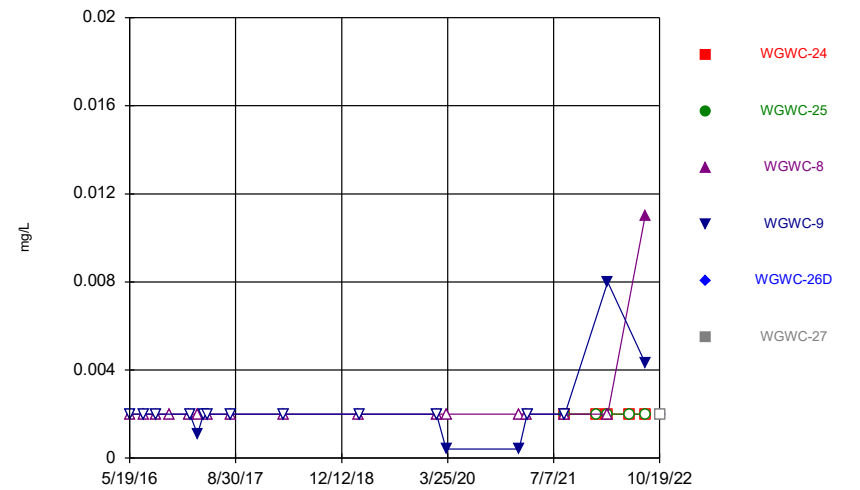
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



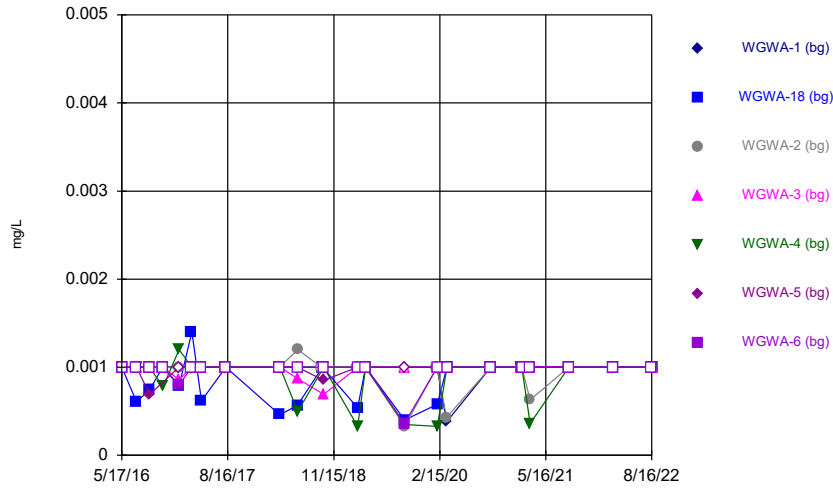
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Time Series



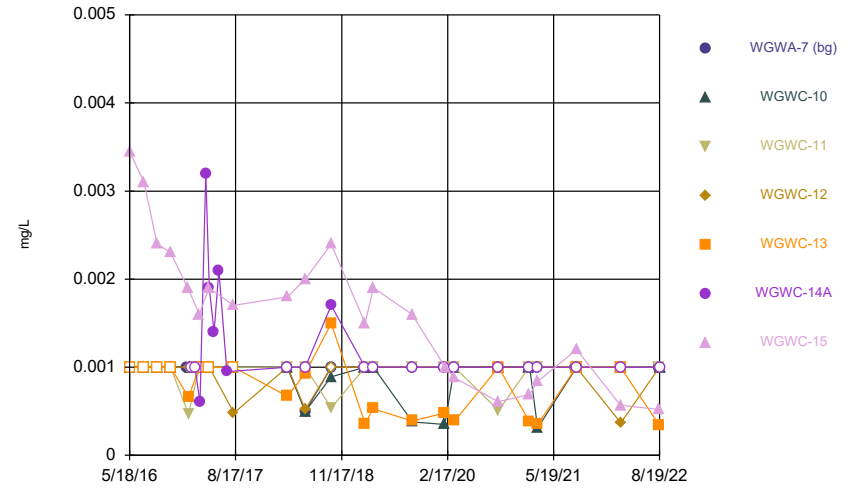
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Time Series



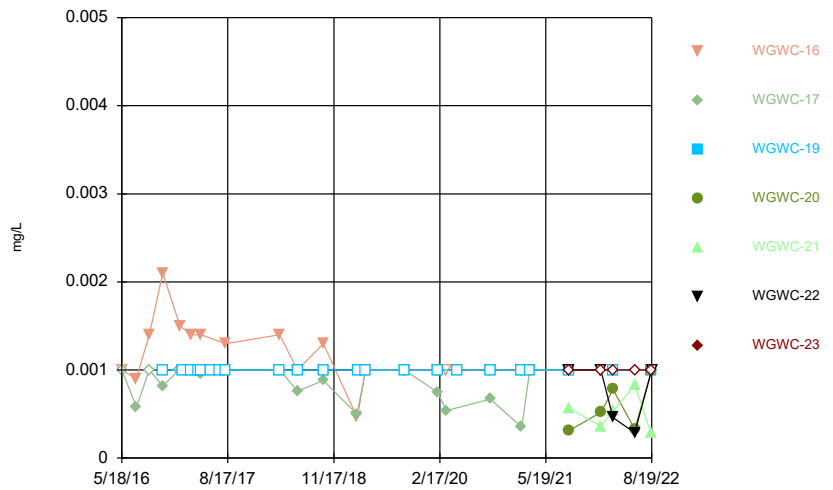
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Time Series



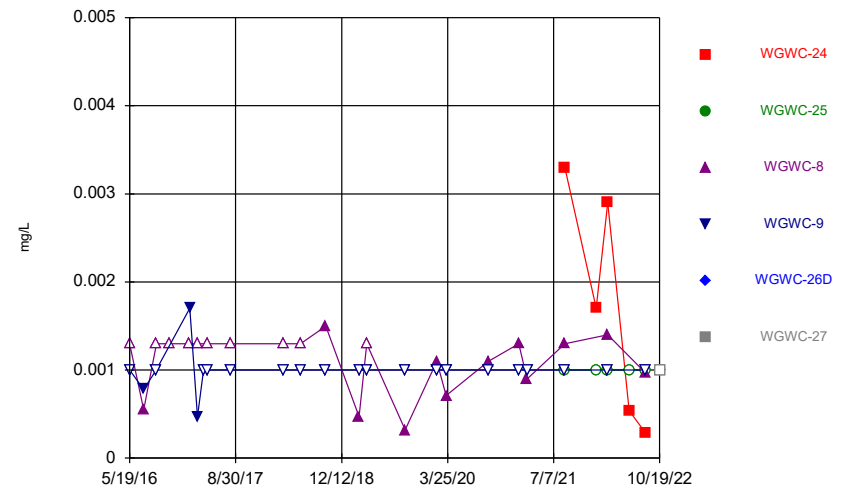
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Time Series



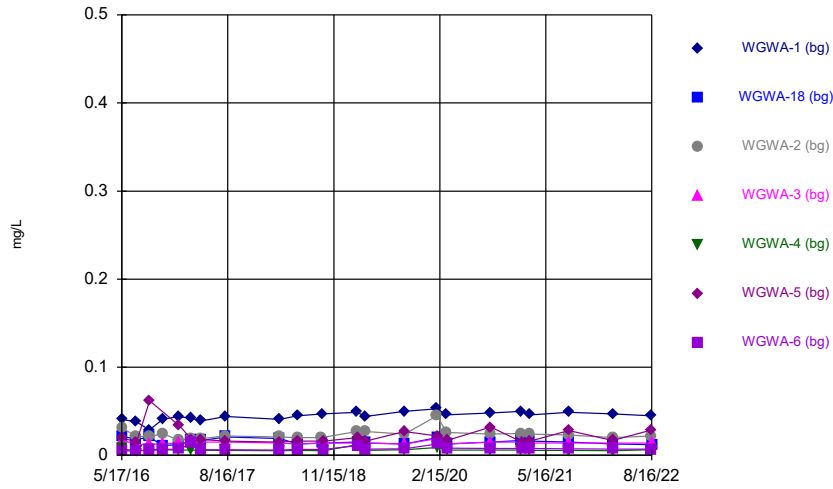
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Time Series



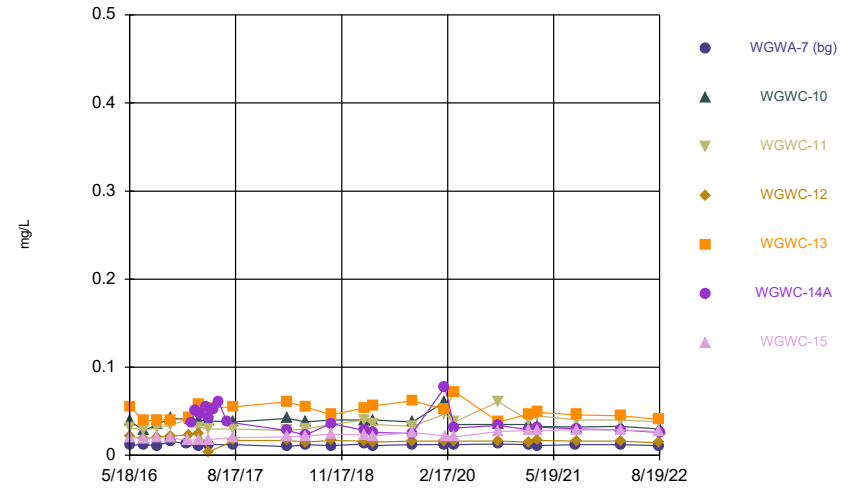
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Time Series



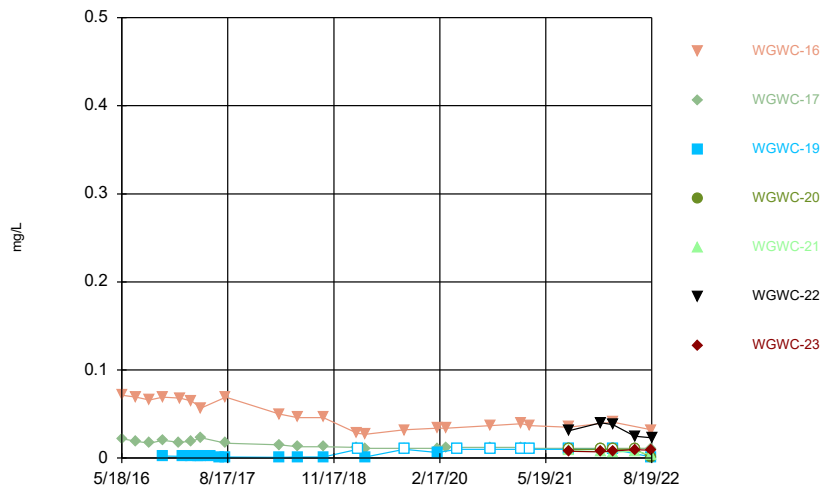
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Time Series



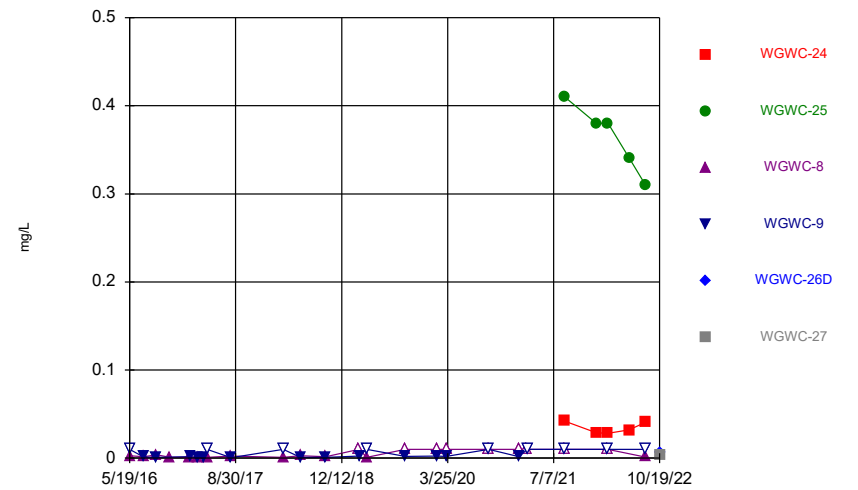
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Time Series



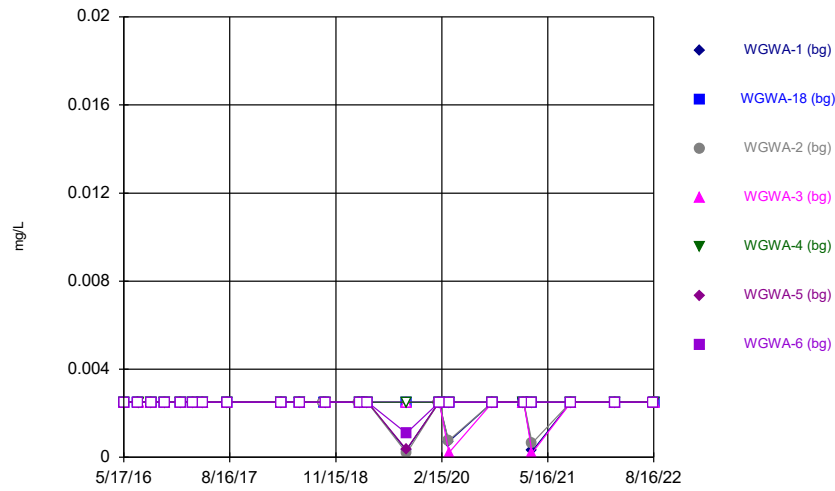
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Time Series



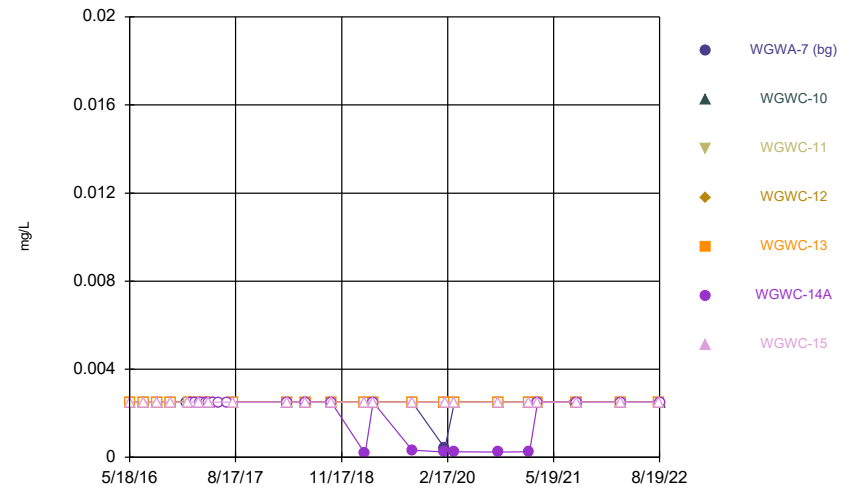
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Time Series



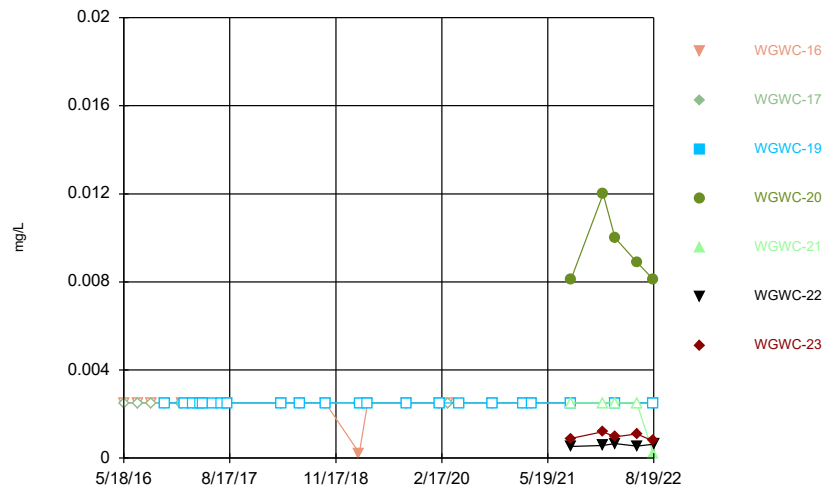
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Time Series



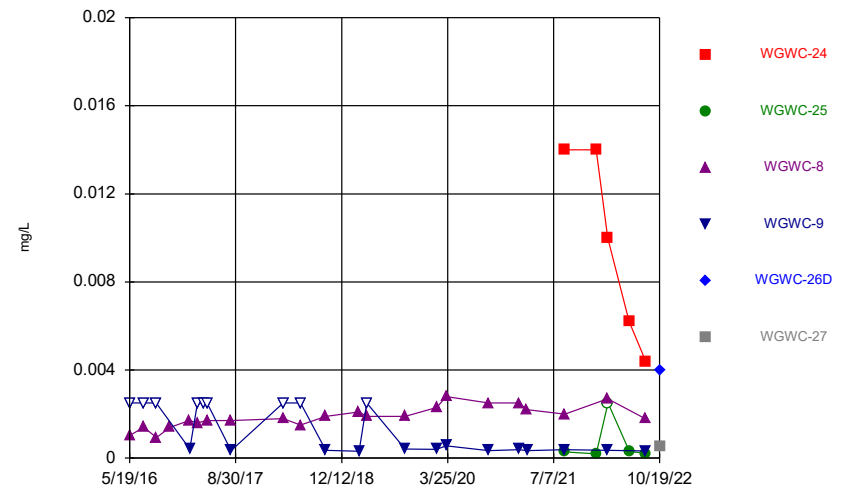
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Time Series



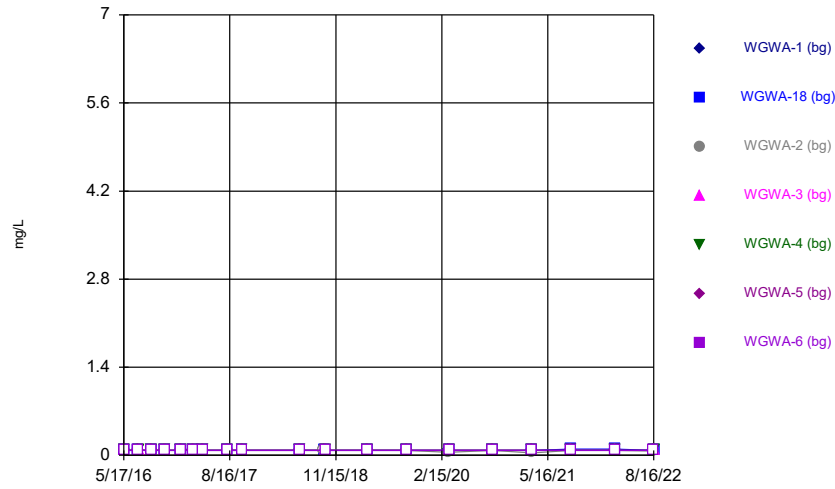
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



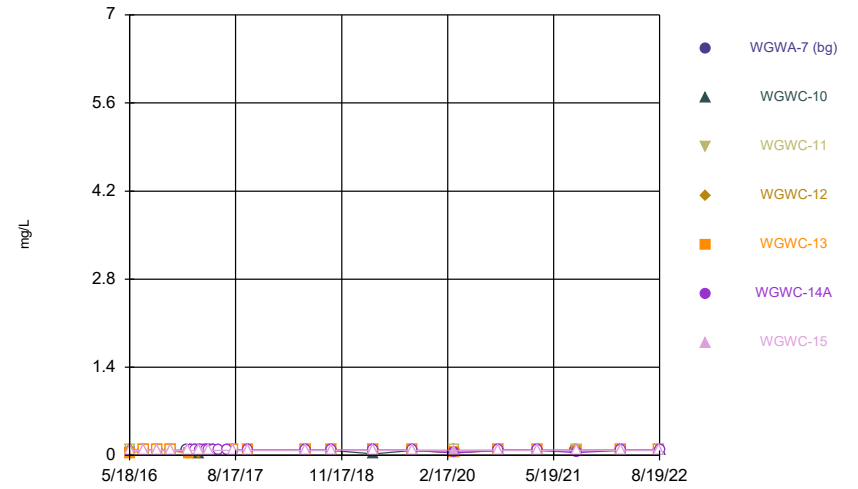
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



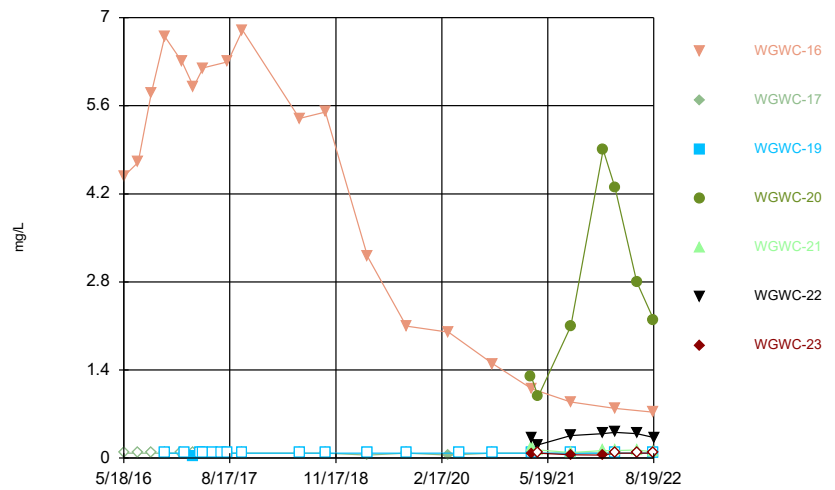
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



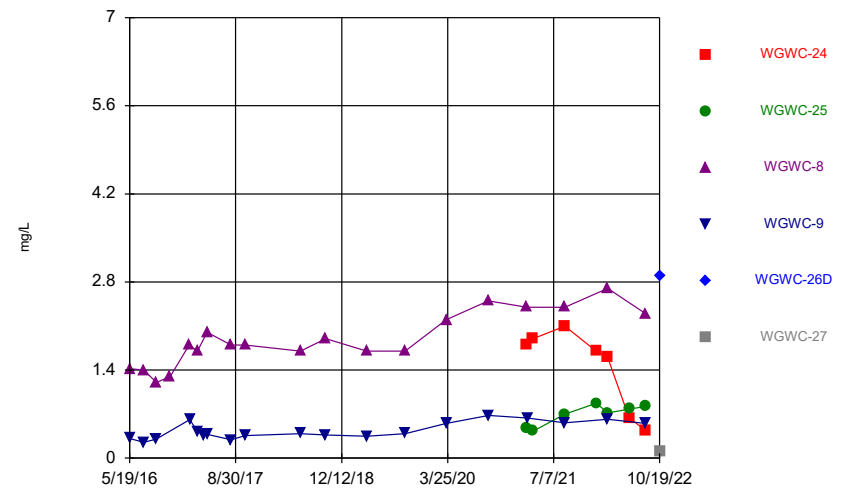
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Time Series



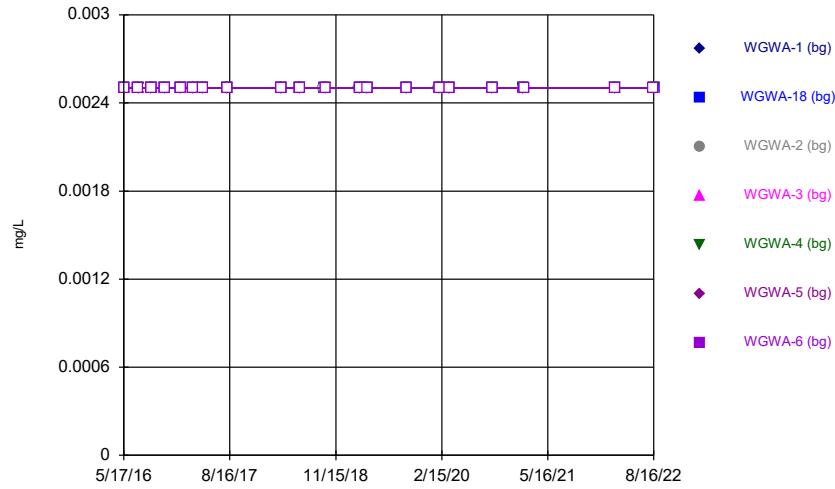
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Time Series



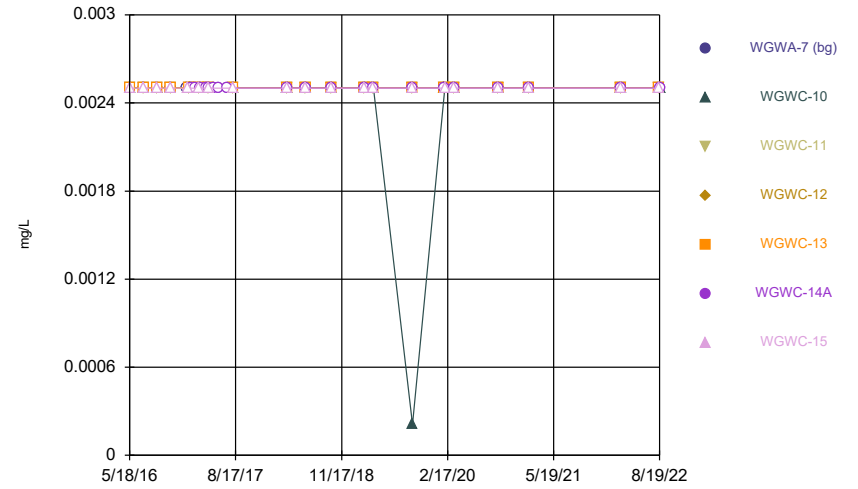
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Time Series



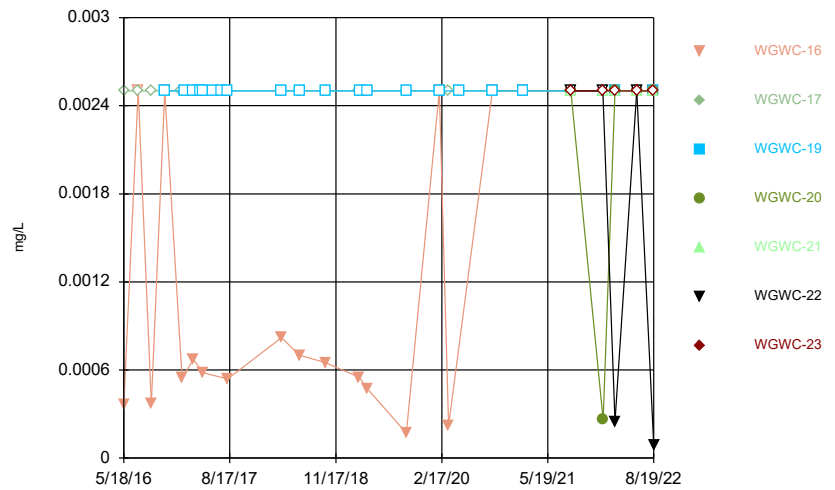
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



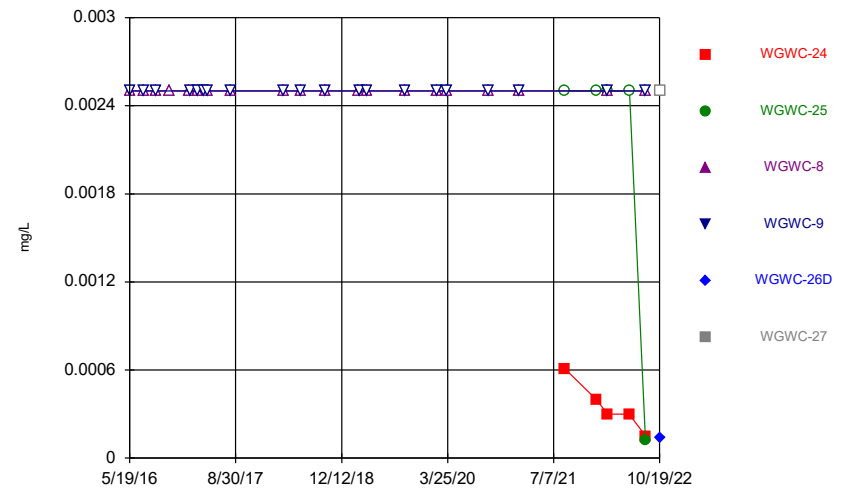
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Time Series



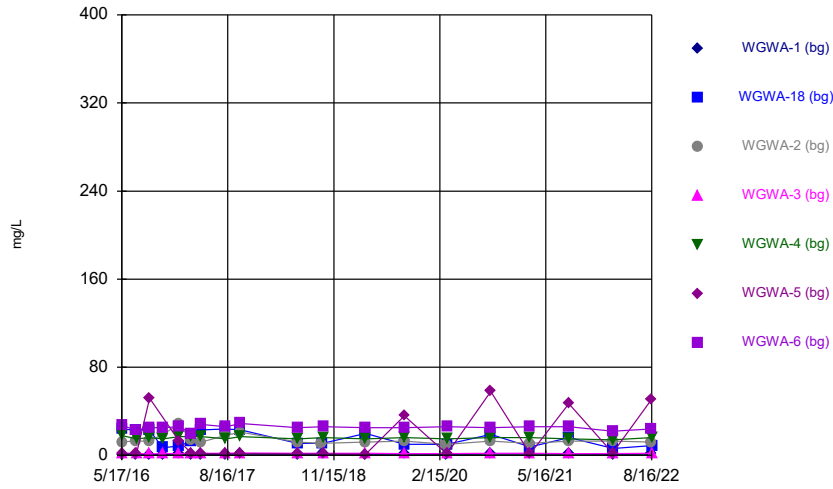
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Time Series



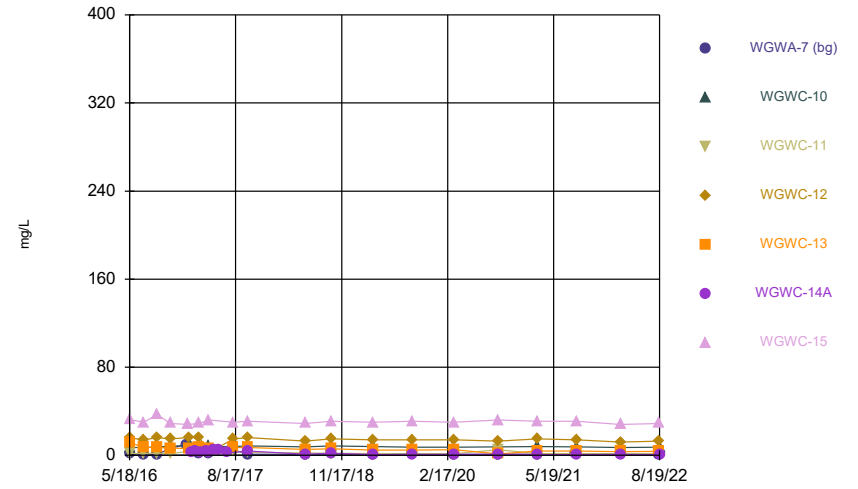
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Time Series



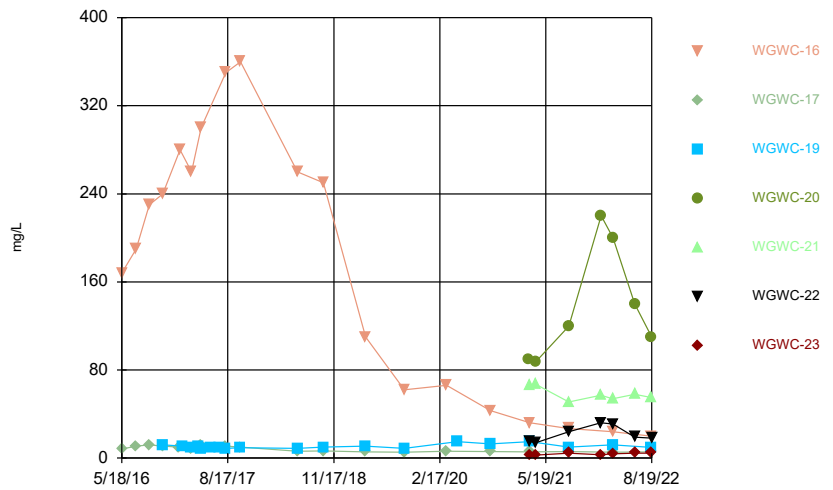
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Time Series



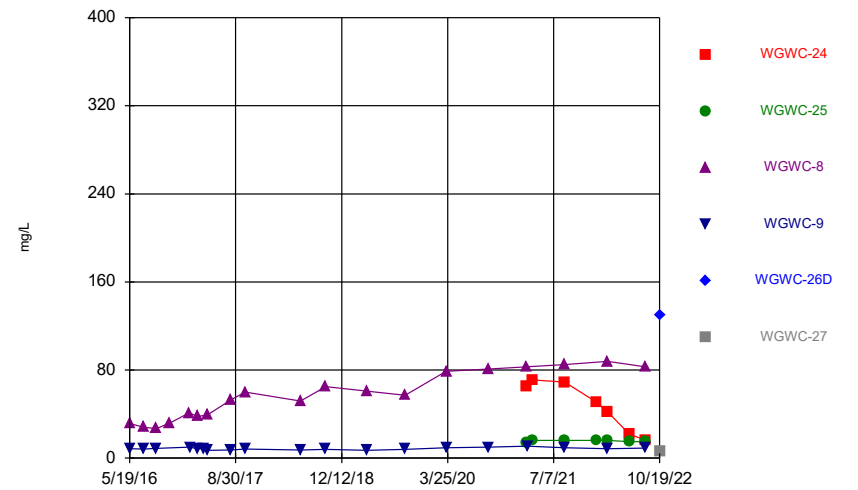
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Time Series



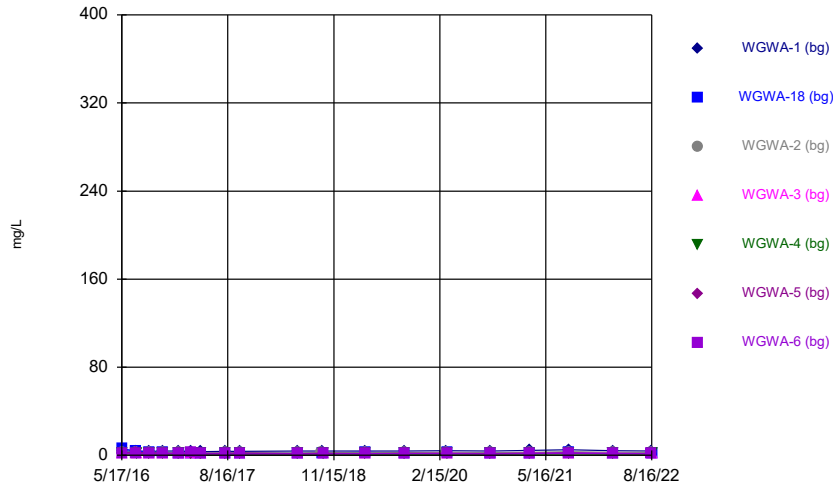
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Time Series



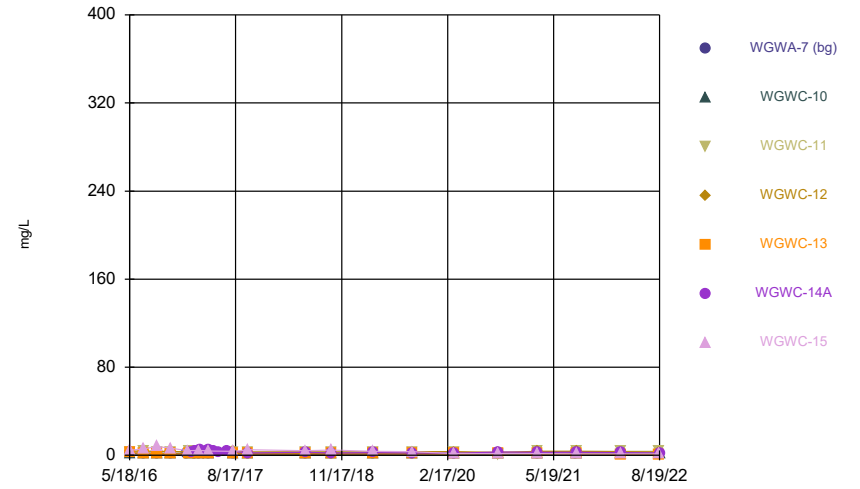
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Time Series



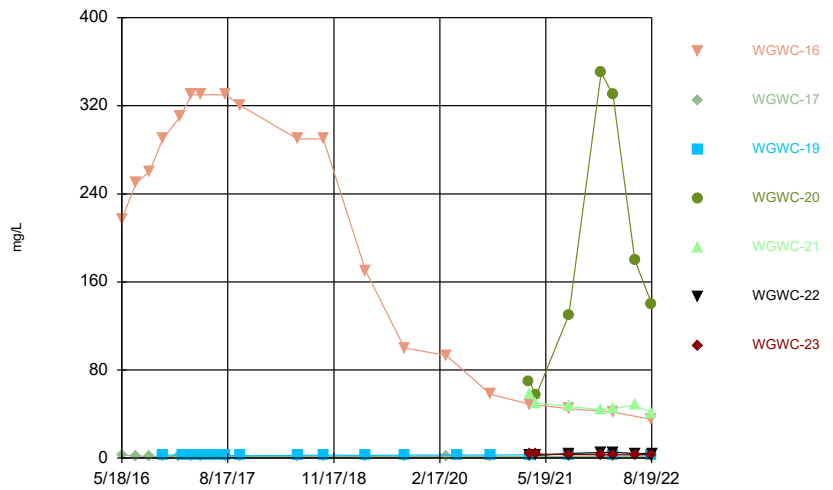
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Time Series



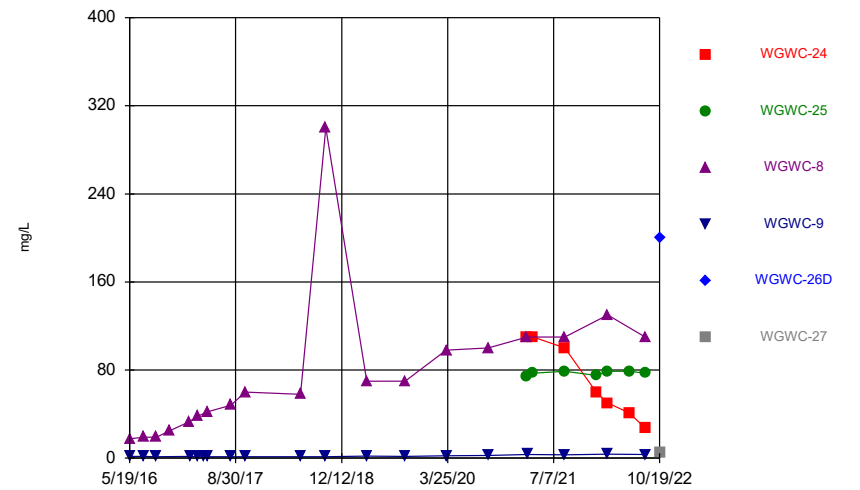
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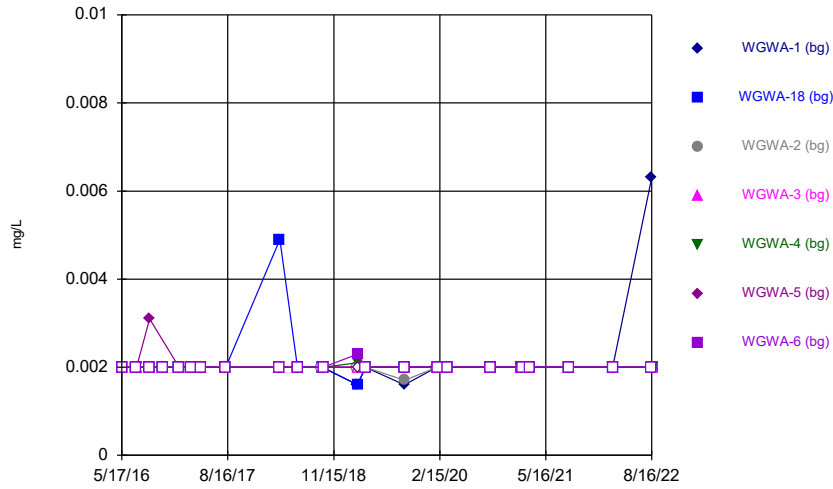
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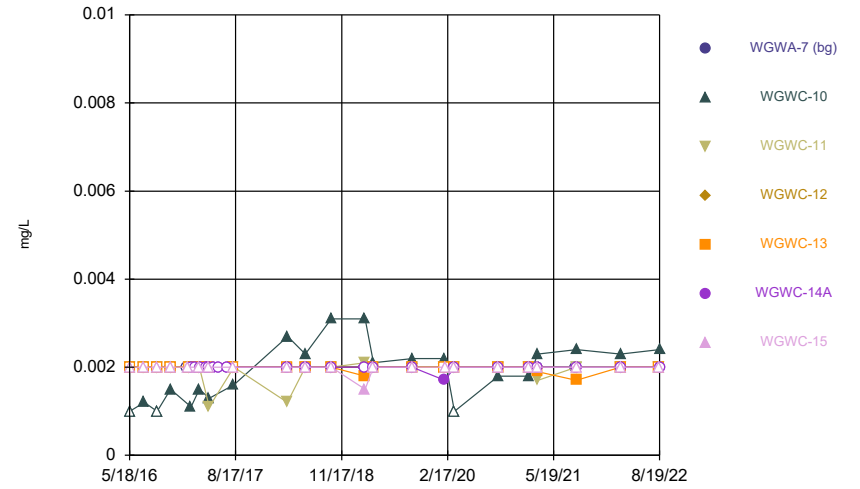
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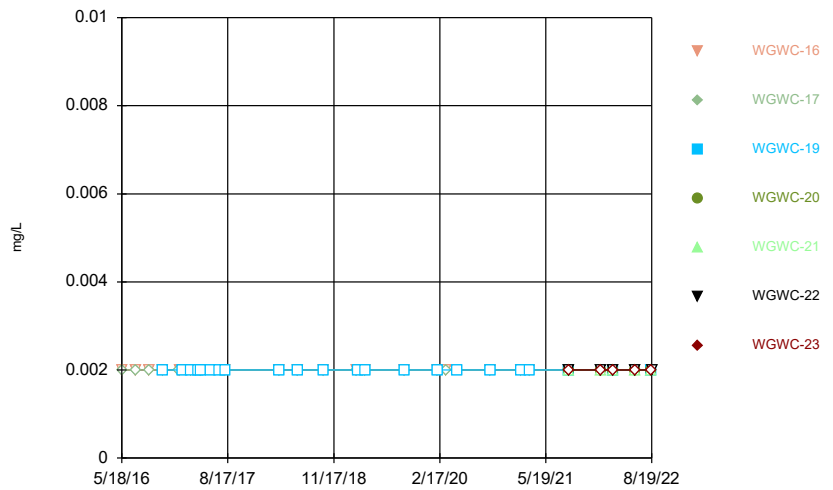
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Time Series



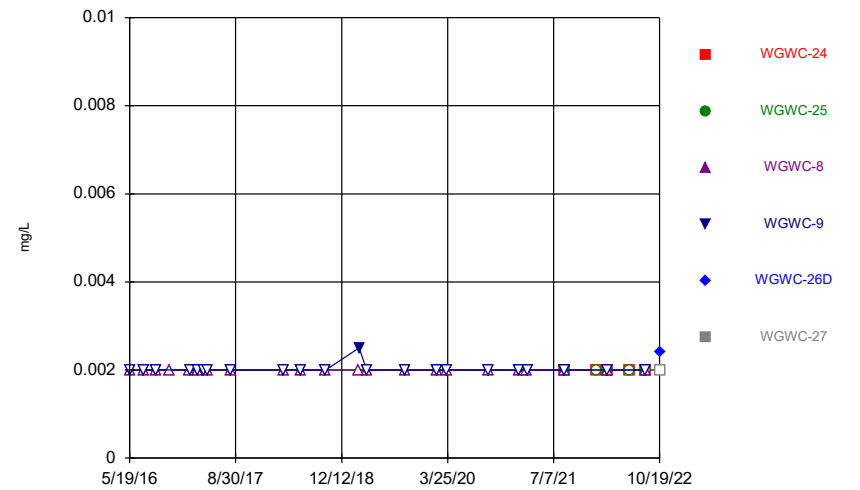
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Time Series



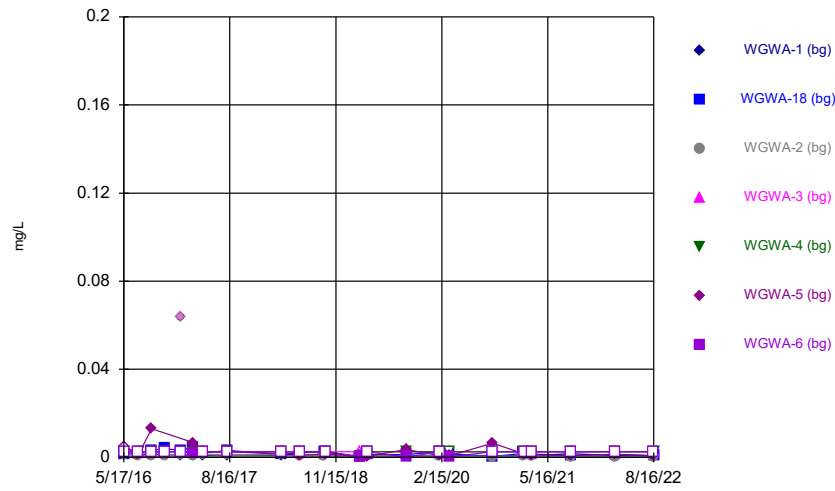
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Time Series



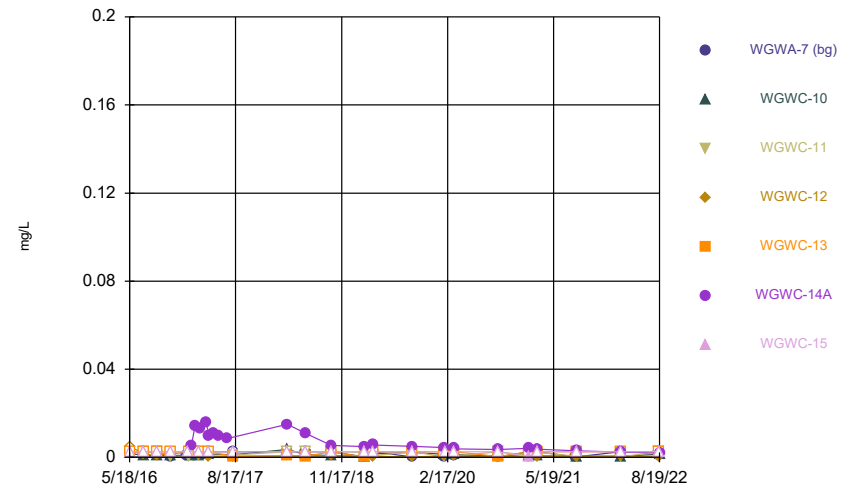
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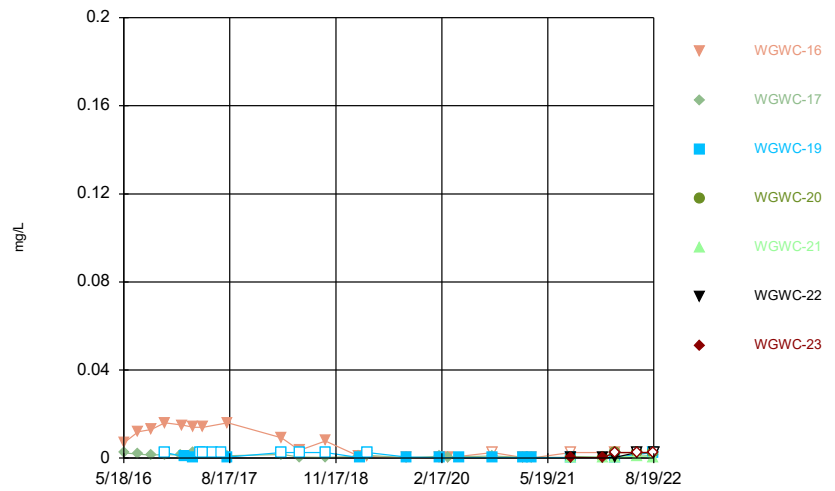
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Time Series



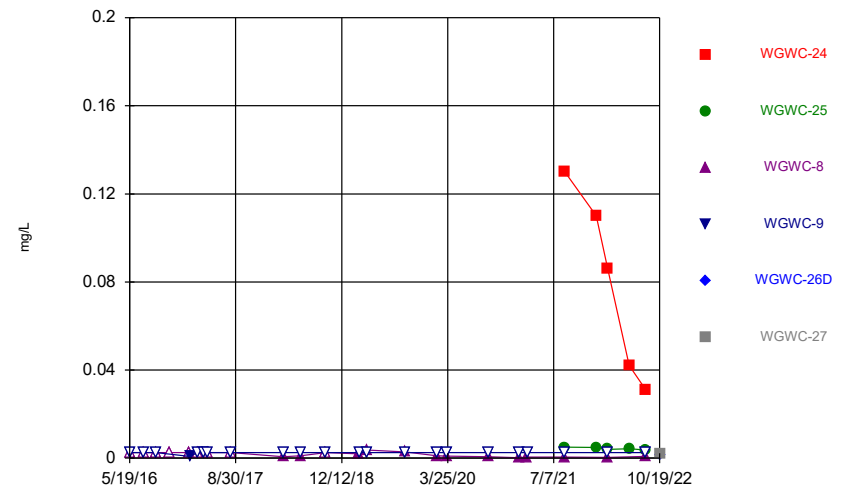
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Time Series



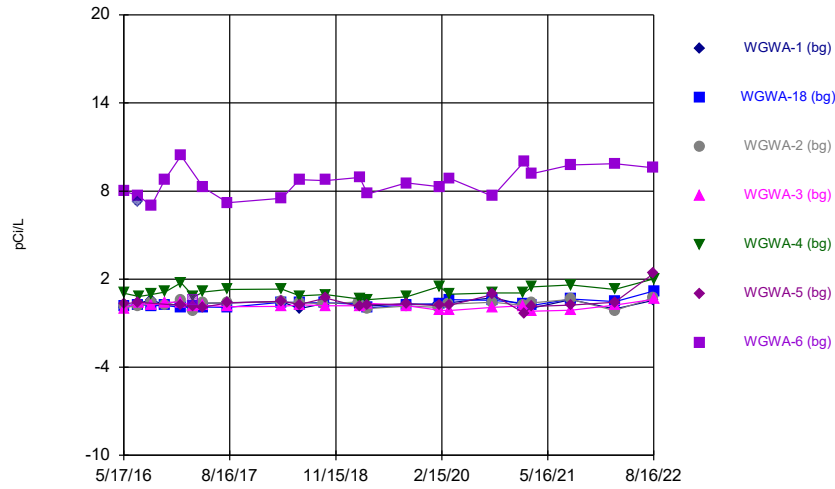
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Time Series



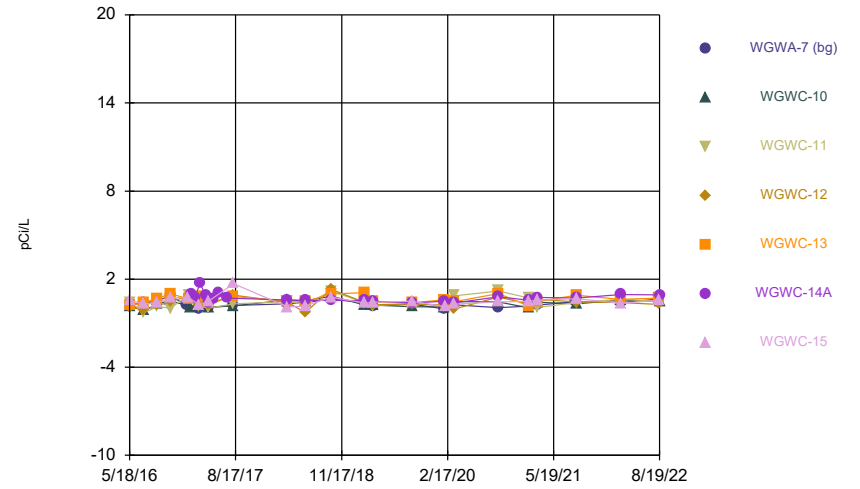
Constituent: Cobalt Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



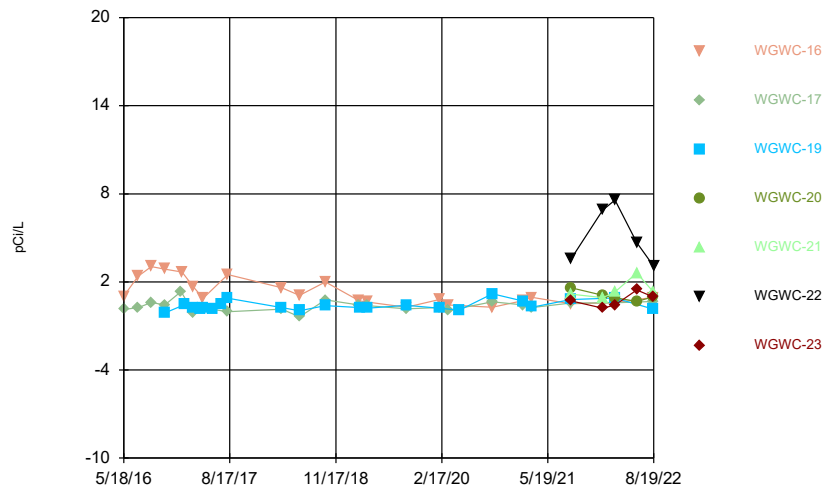
Constituent: Combined Radium 226 + 228 Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



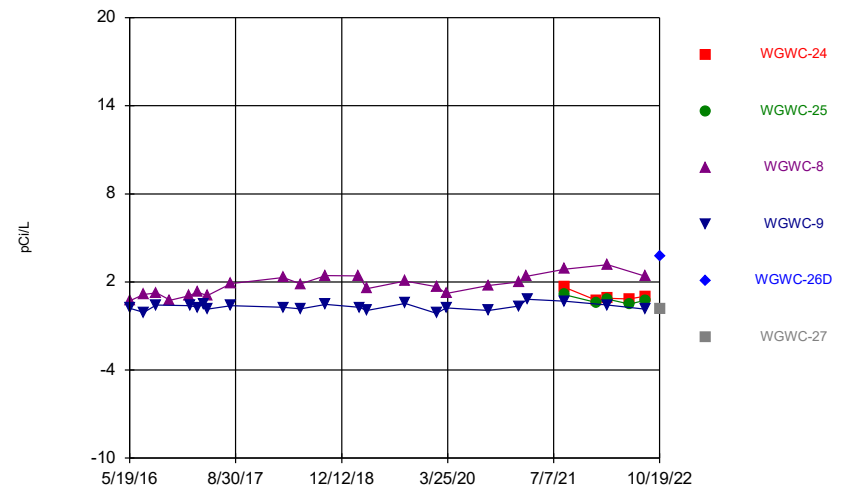
Constituent: Combined Radium 226 + 228 Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



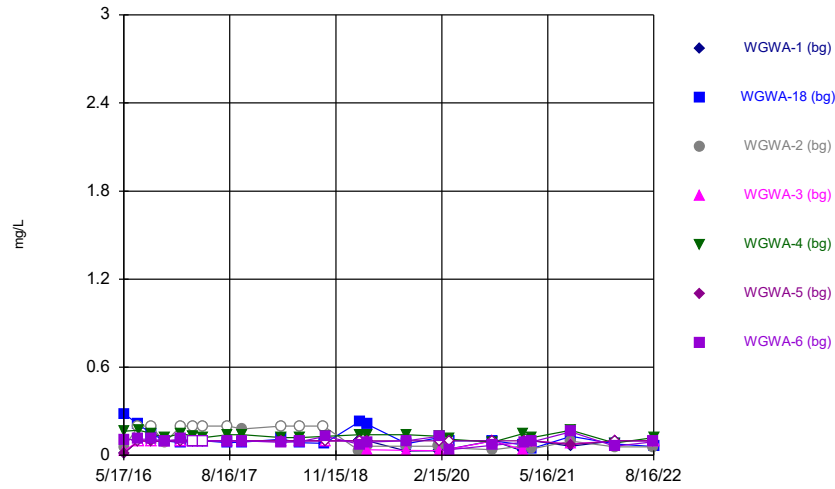
Constituent: Combined Radium 226 + 228 Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



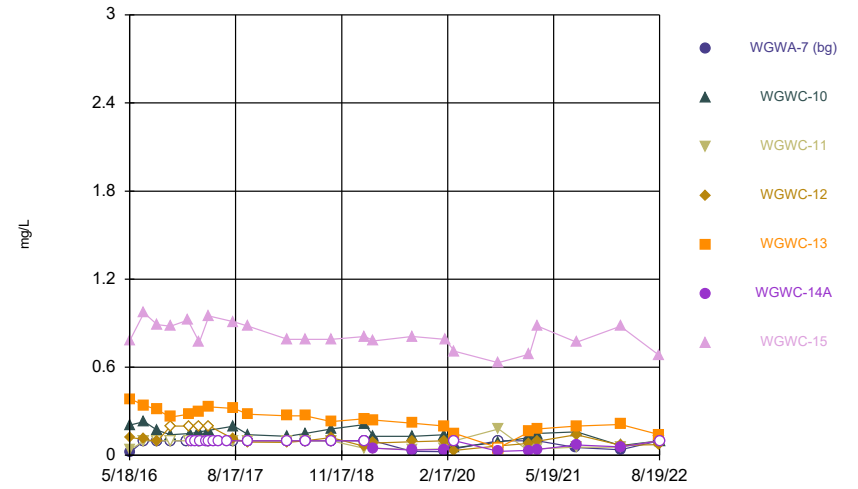
Constituent: Combined Radium 226 + 228 Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



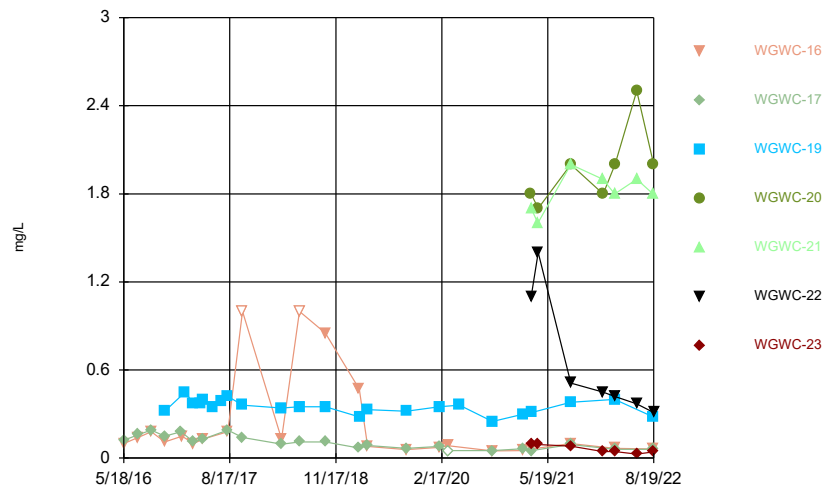
Constituent: Fluoride, total Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



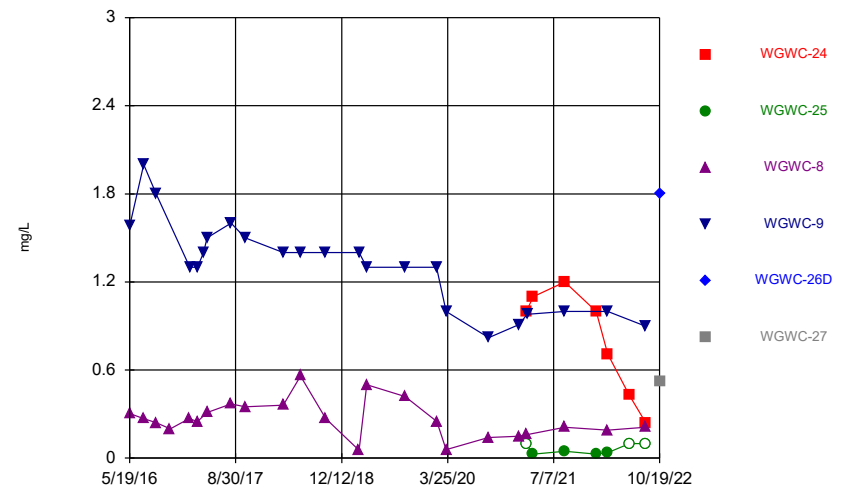
Constituent: Fluoride, total Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



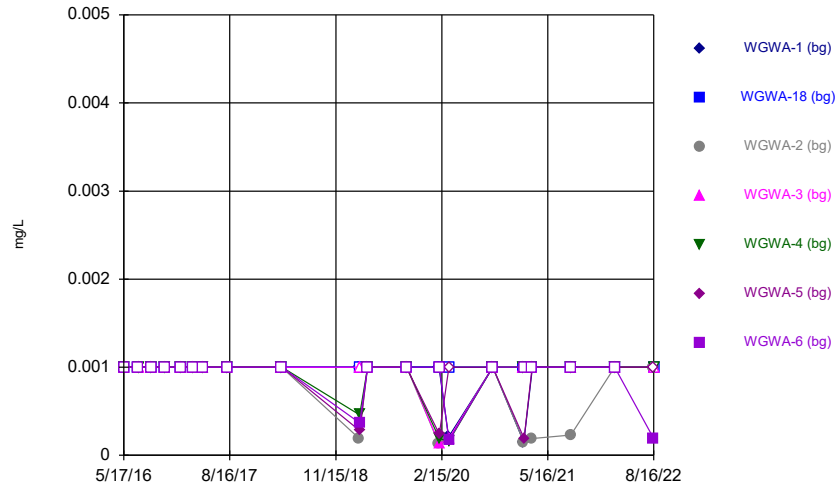
Constituent: Fluoride, total Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



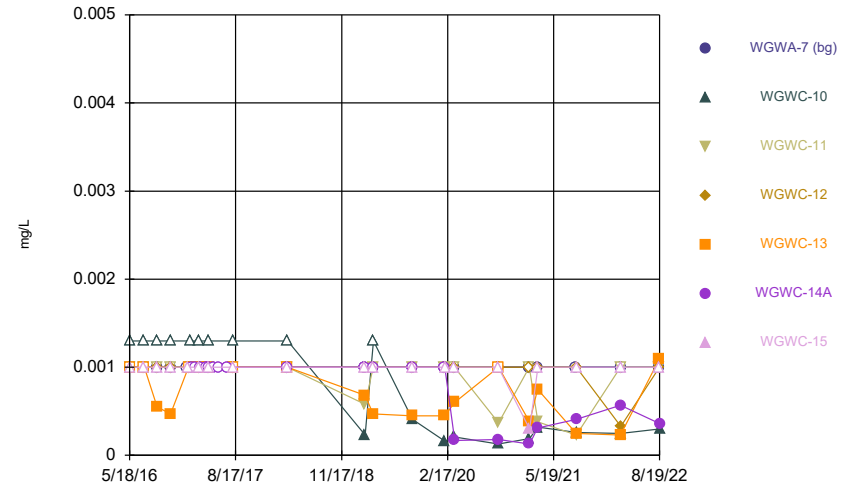
Constituent: Fluoride, total Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



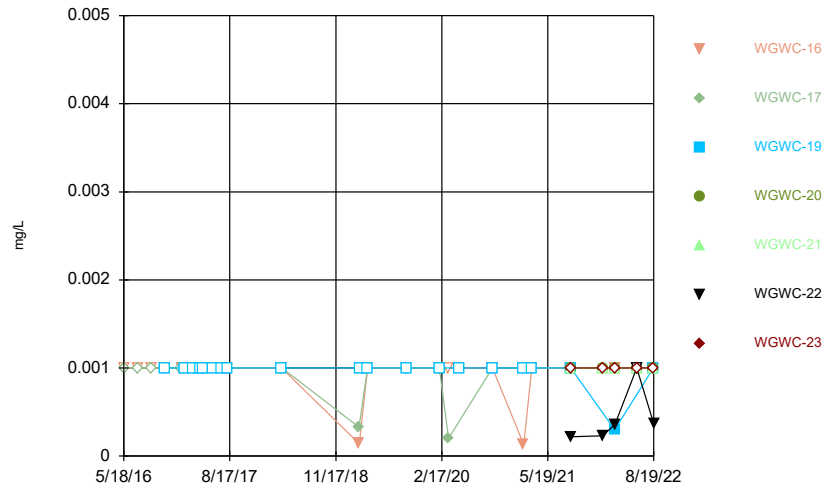
Constituent: Lead Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



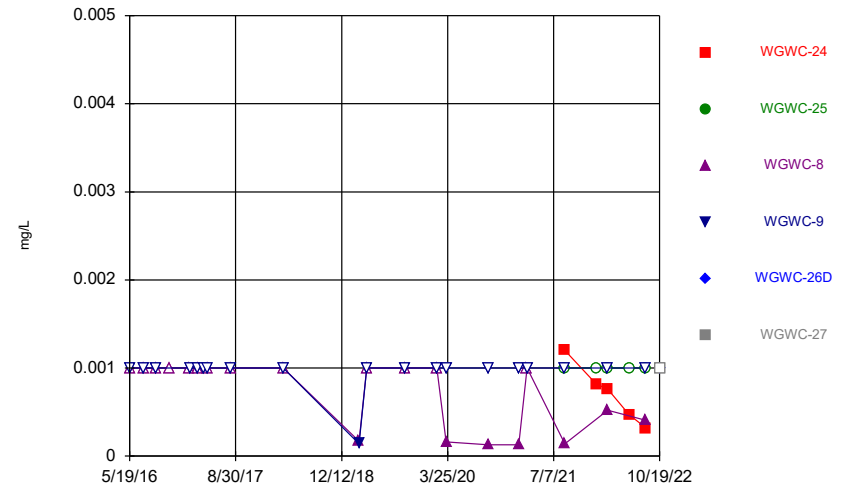
Constituent: Lead Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



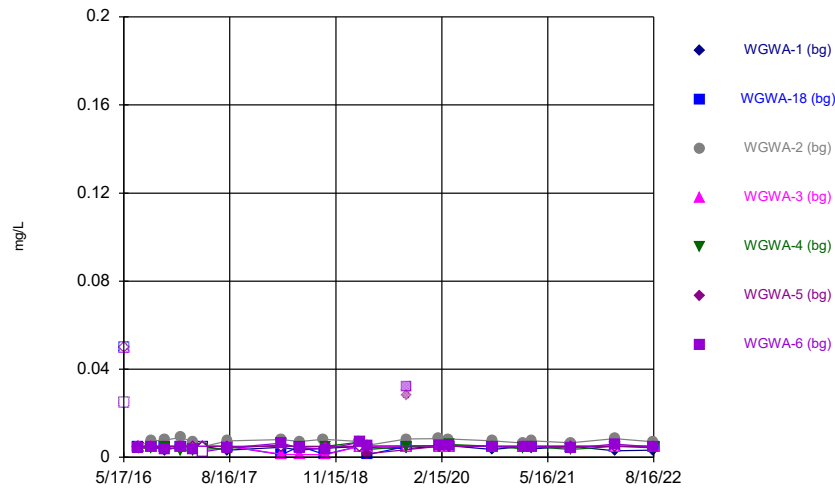
Constituent: Lead Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



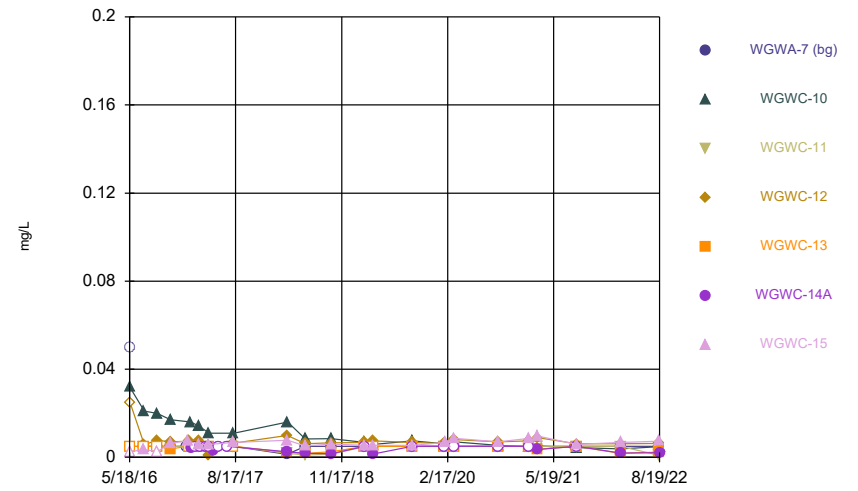
Constituent: Lead Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



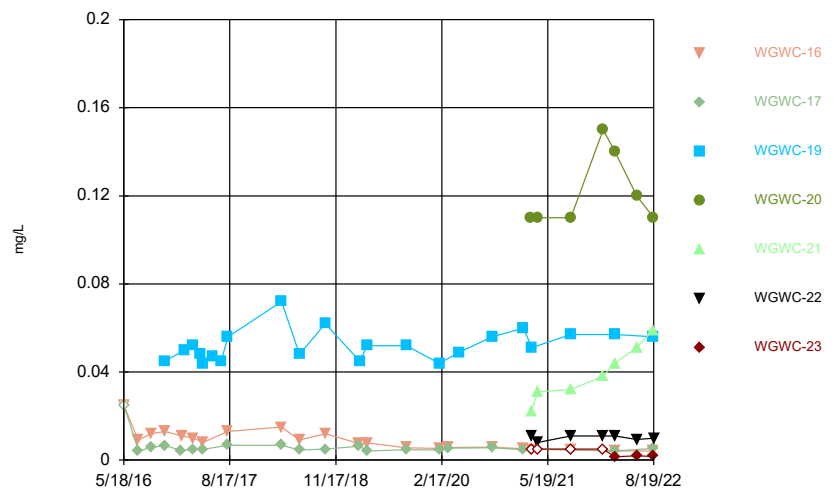
Constituent: Lithium Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



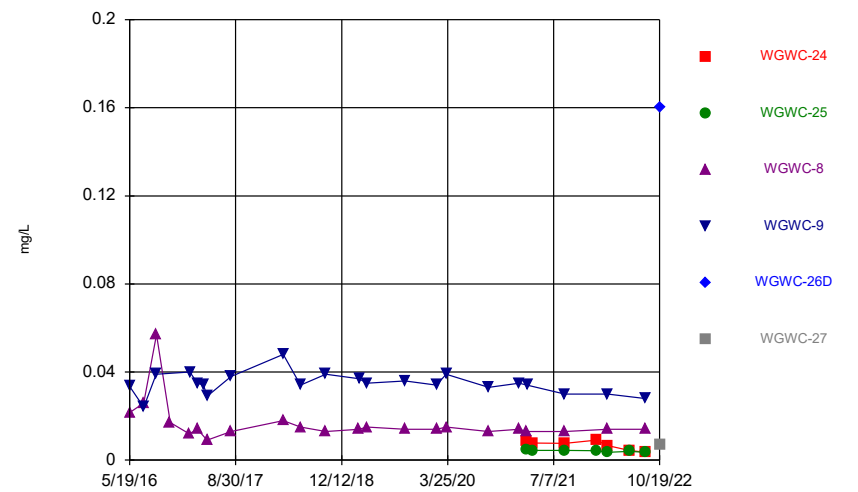
Constituent: Lithium Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



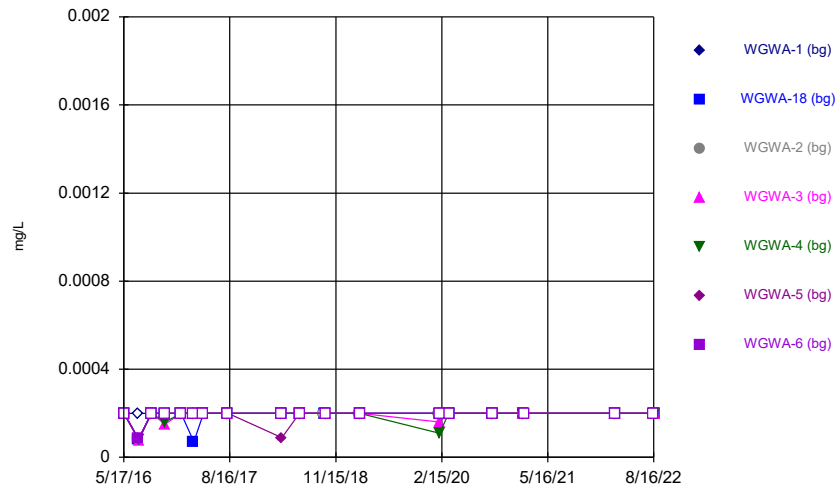
Constituent: Lithium Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



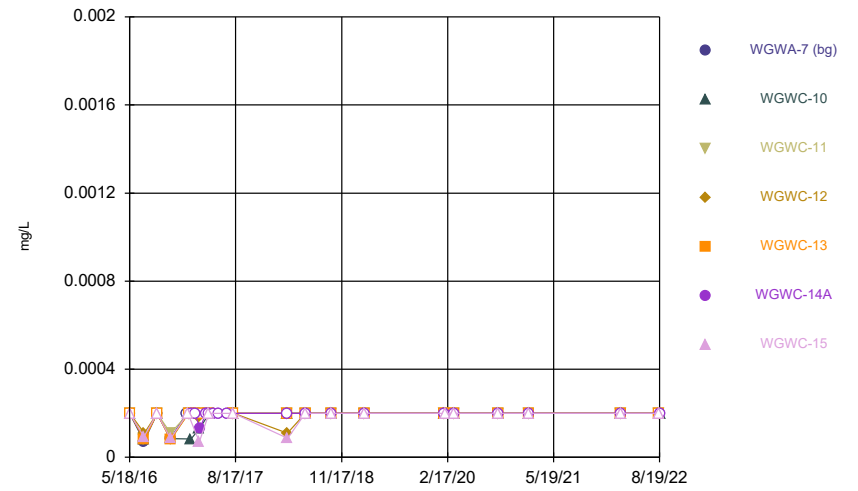
Constituent: Lithium Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



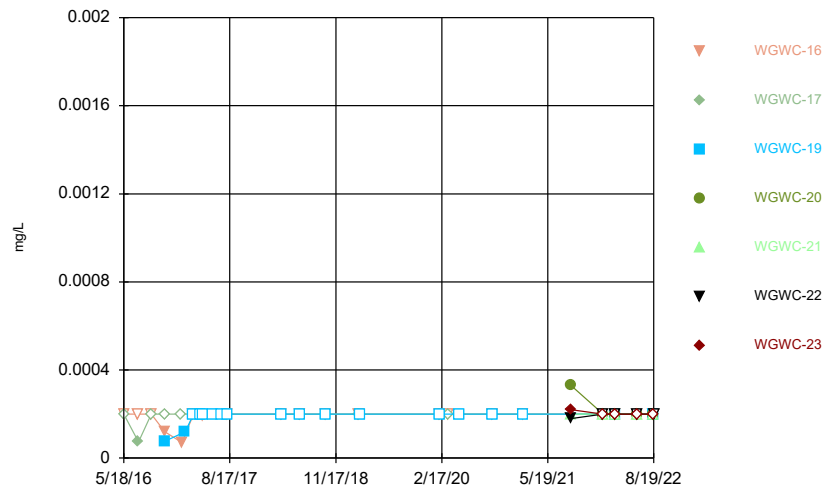
Constituent: Mercury Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



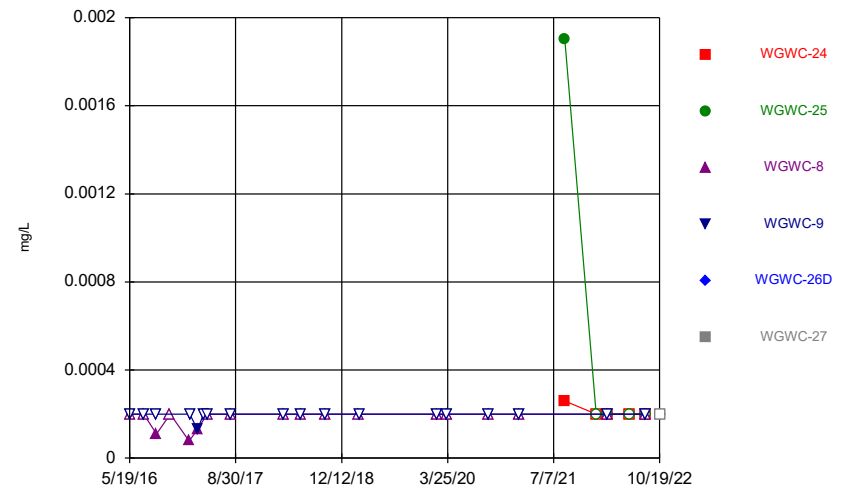
Constituent: Mercury Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



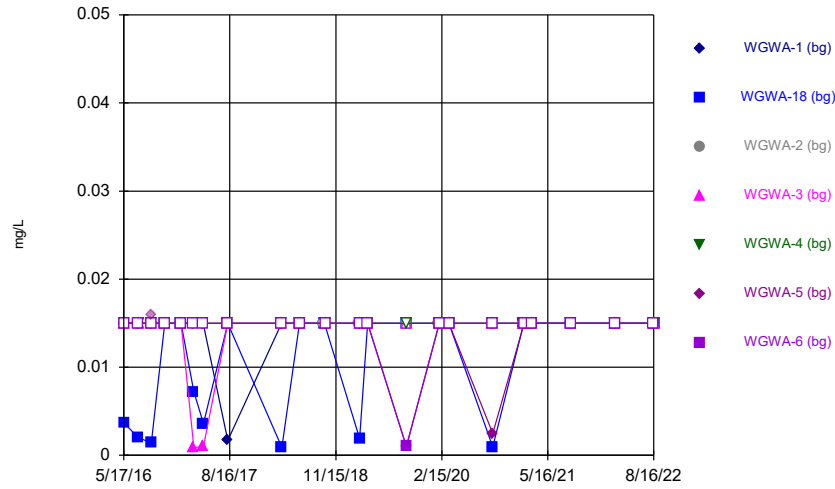
Constituent: Mercury Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



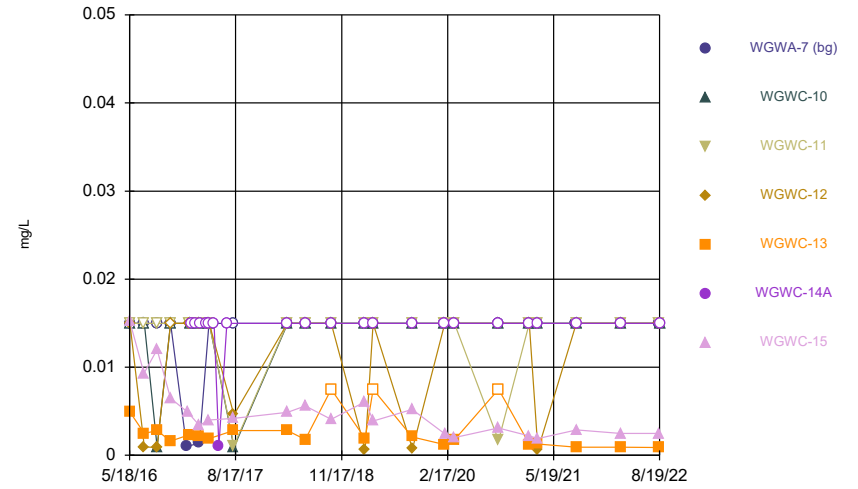
Constituent: Mercury Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



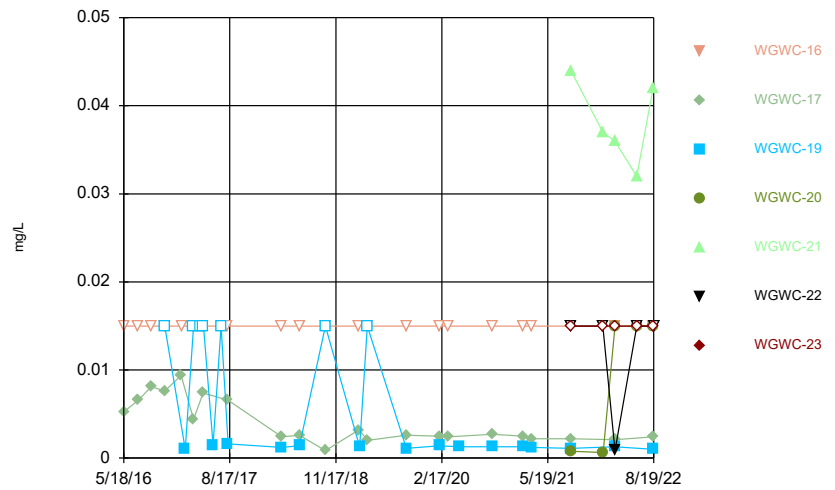
Constituent: Molybdenum Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



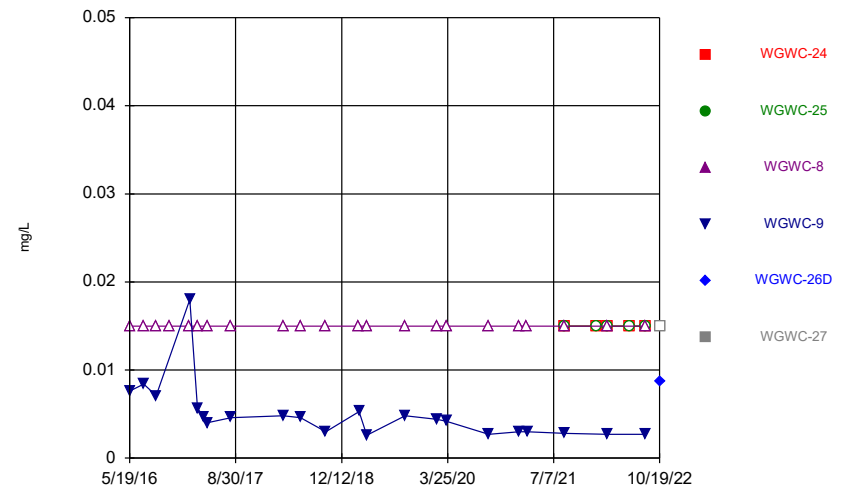
Constituent: Molybdenum Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



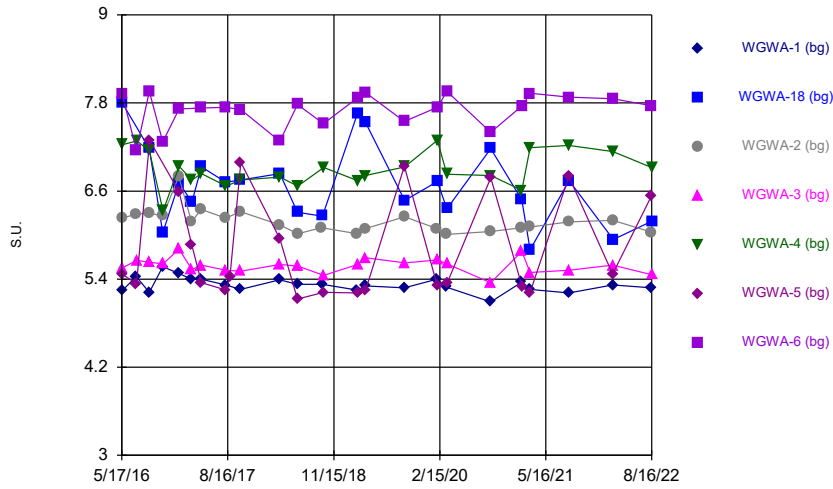
Constituent: Molybdenum Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



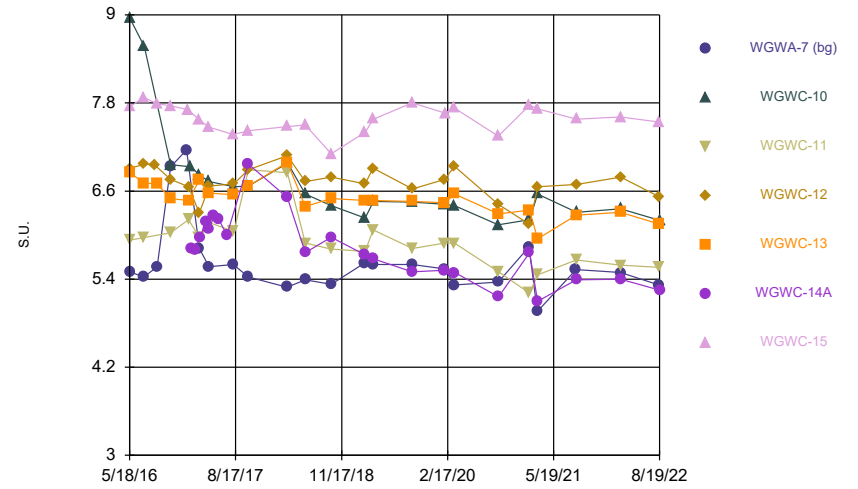
Constituent: Molybdenum Analysis Run 1/5/2023 1:51 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



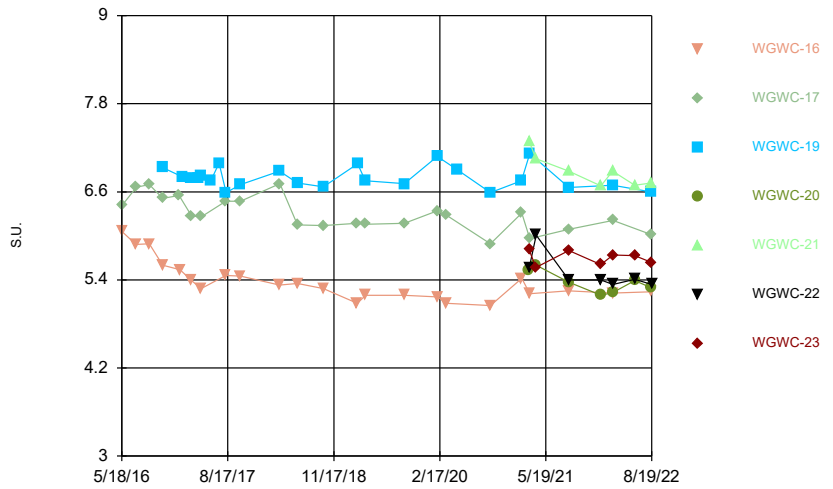
Constituent: pH, Field Analysis Run 1/5/2023 1:51 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



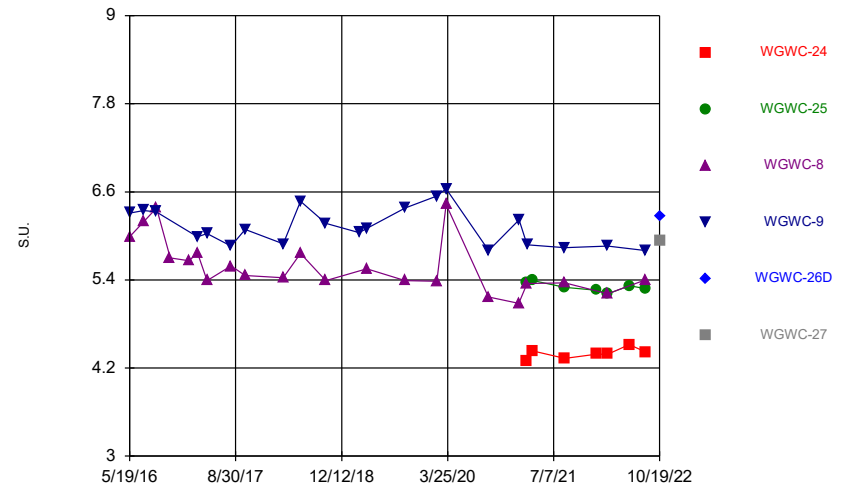
Constituent: pH, Field Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



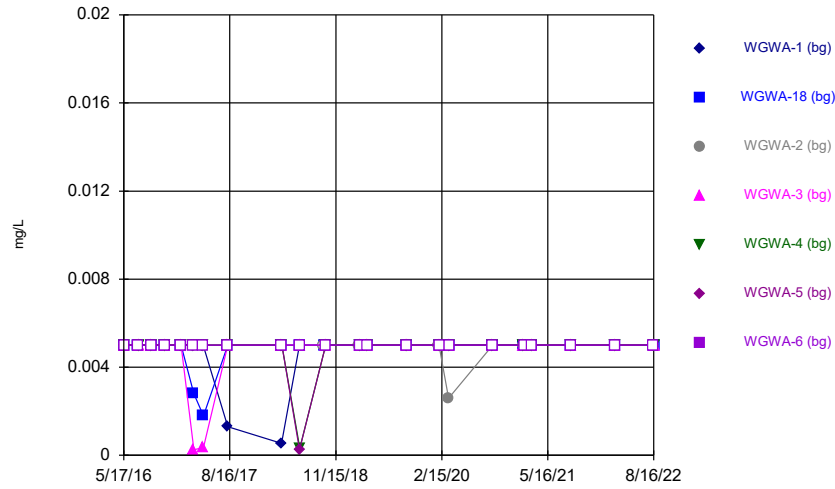
Constituent: pH, Field Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



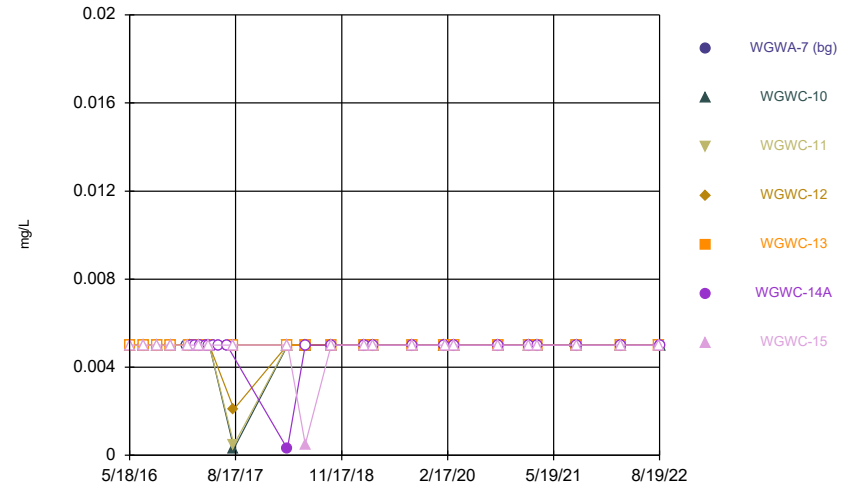
Constituent: pH, Field Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



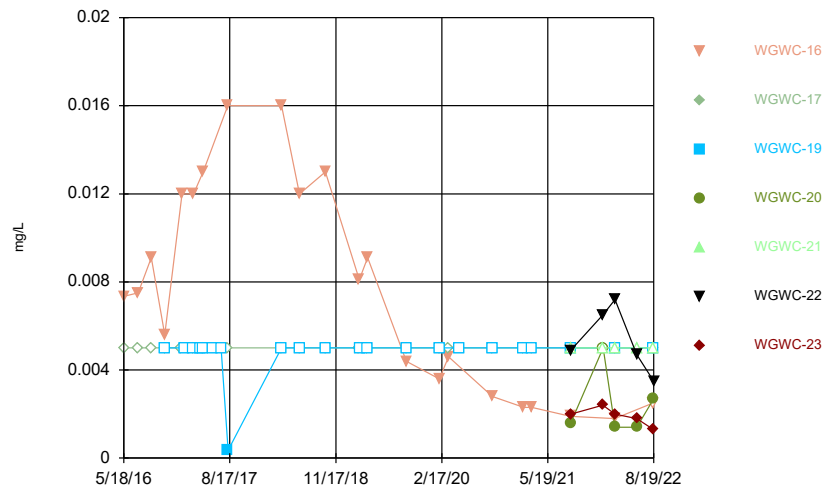
Constituent: Selenium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



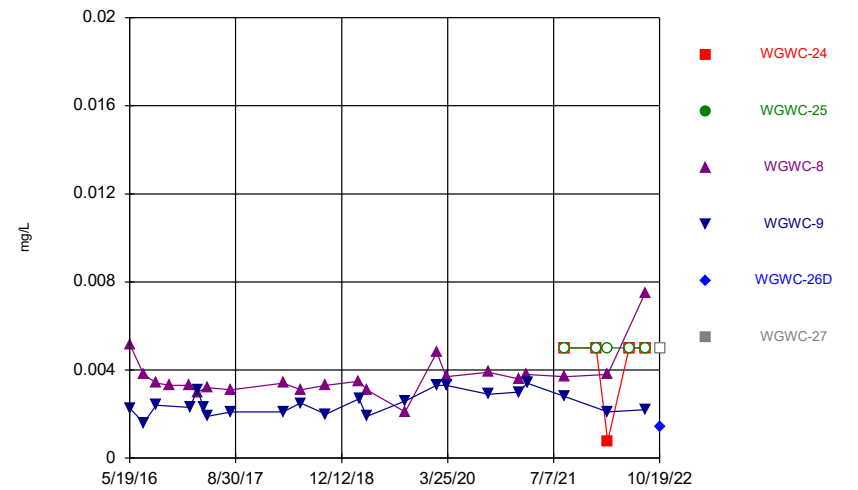
Constituent: Selenium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



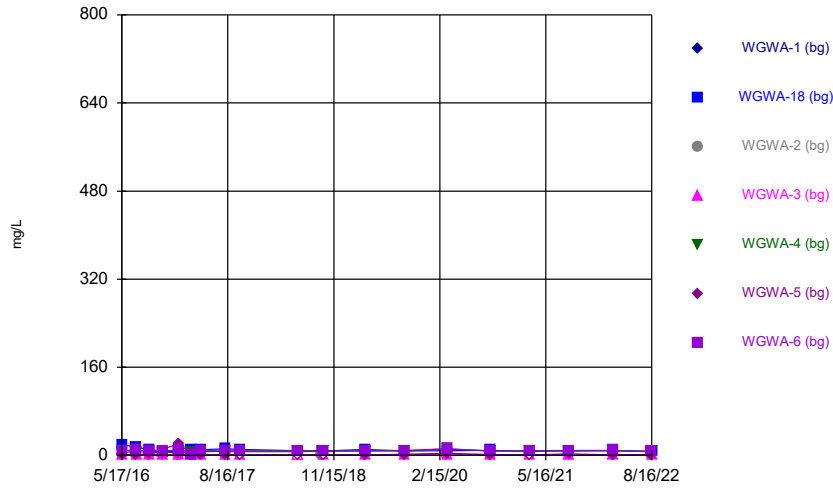
Constituent: Selenium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



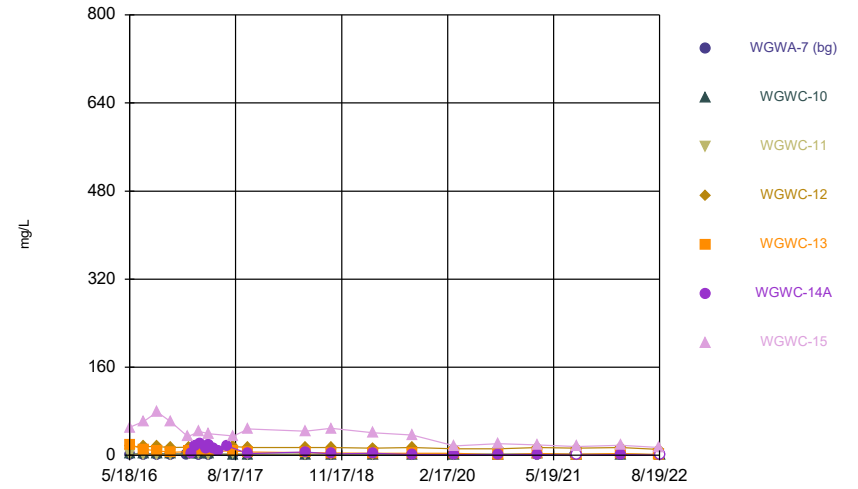
Constituent: Selenium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



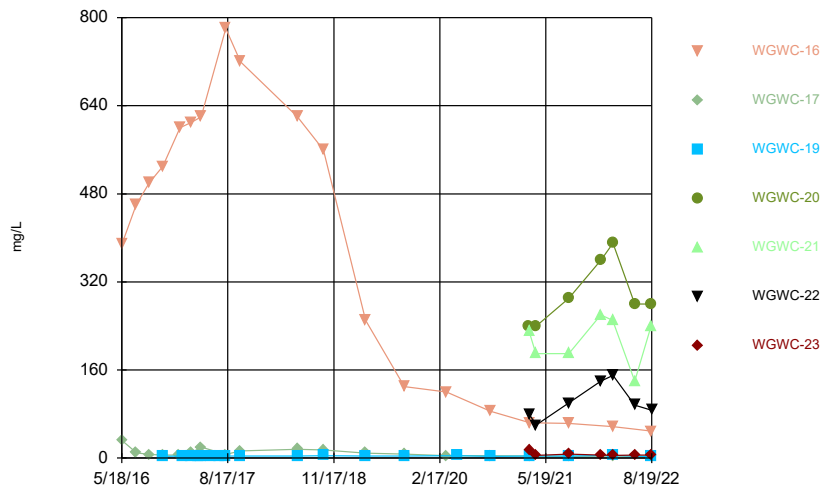
Constituent: Sulfate as SO4 Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



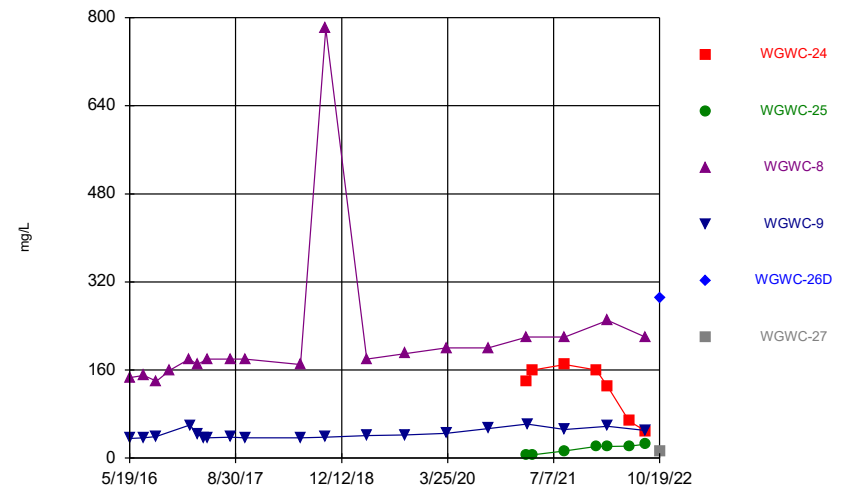
Constituent: Sulfate as SO4 Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



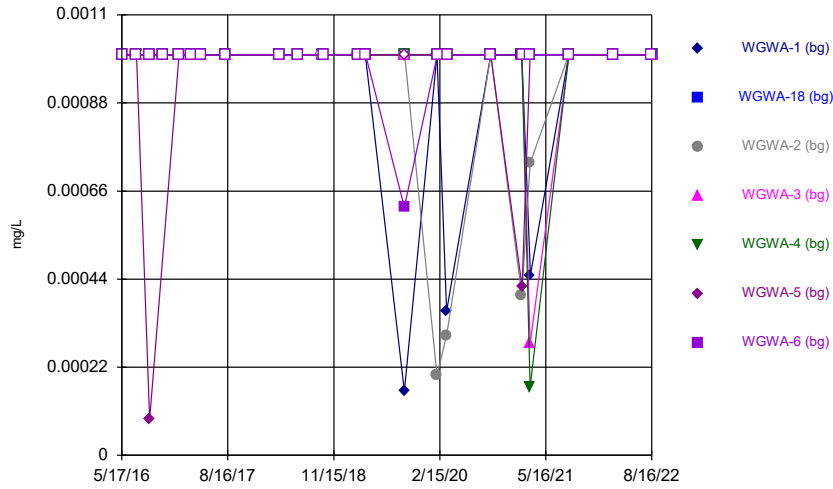
Constituent: Sulfate as SO4 Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



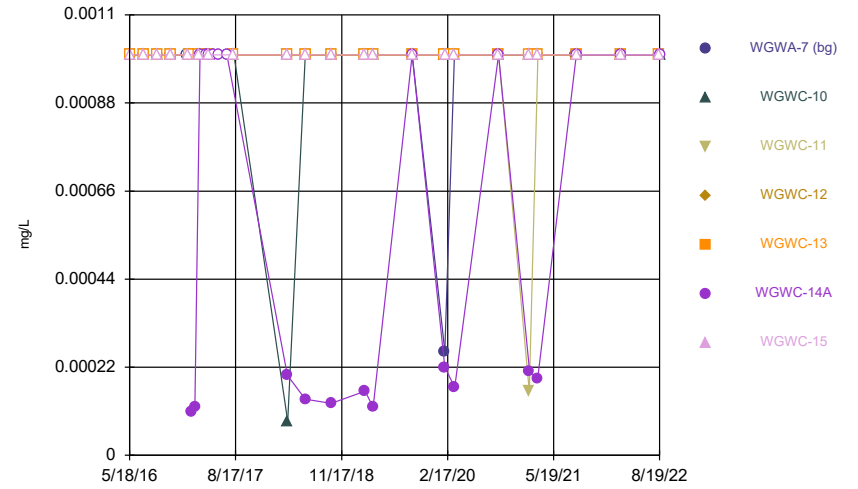
Constituent: Sulfate as SO4 Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



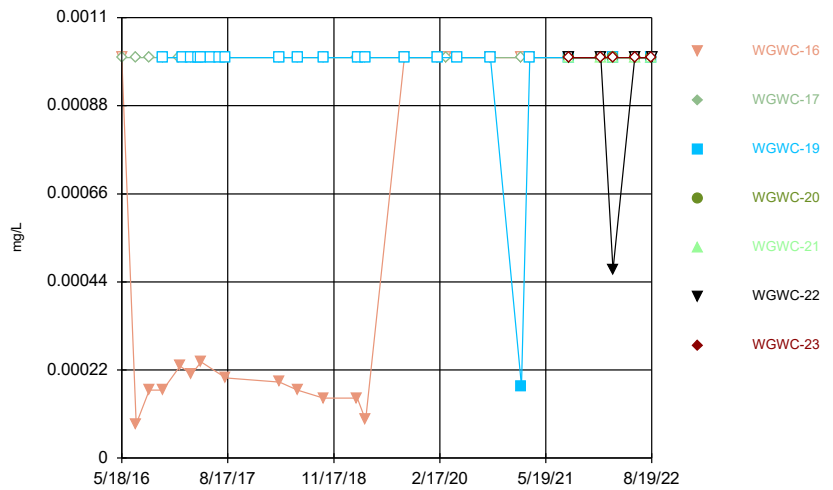
Constituent: Thallium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



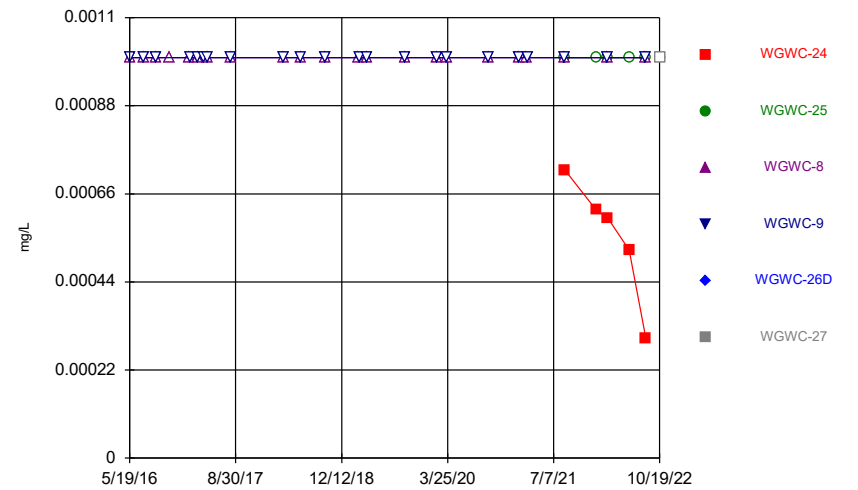
Constituent: Thallium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



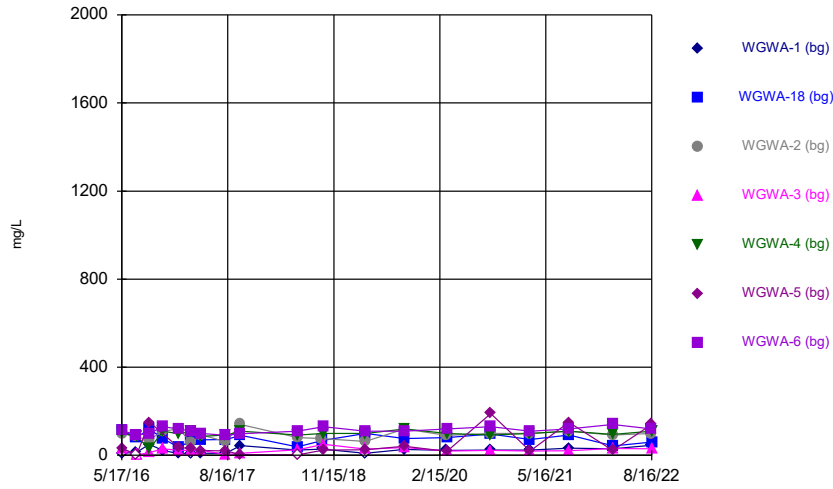
Constituent: Thallium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



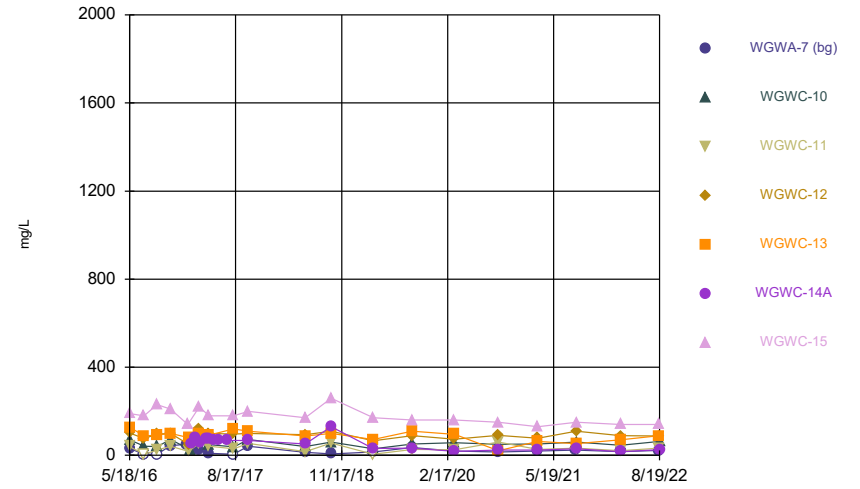
Constituent: Thallium Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



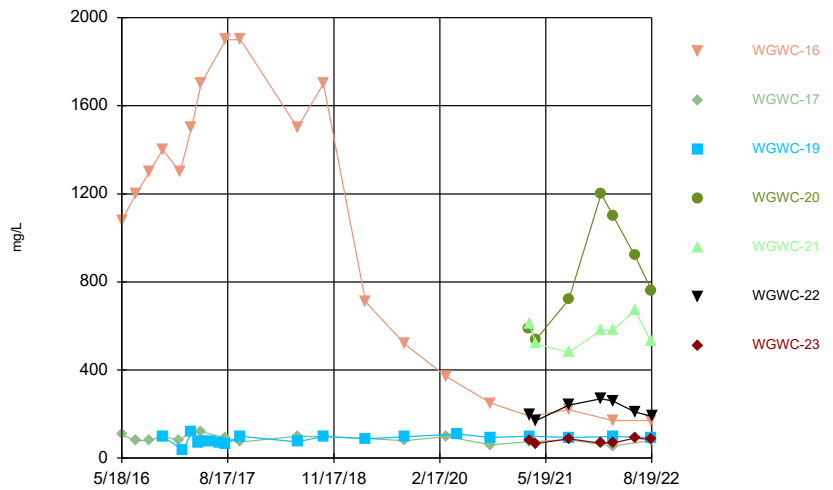
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



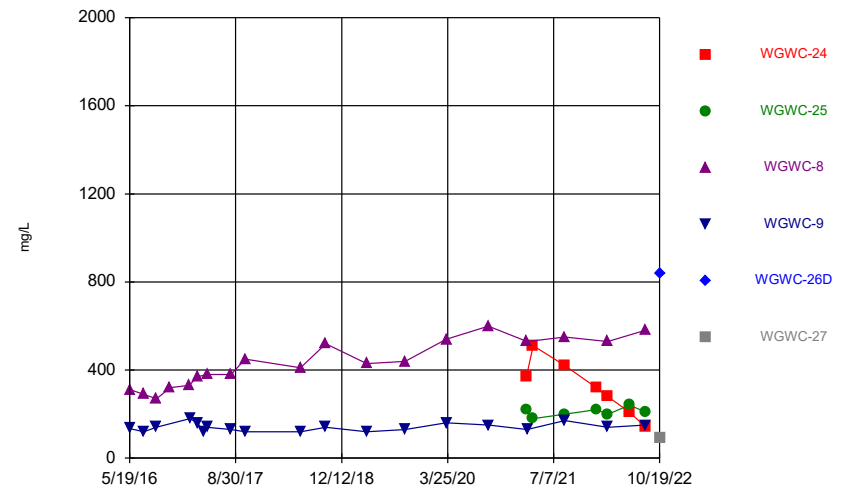
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002			<0.002	<0.002
7/20/2016				<0.002	<0.002		
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
9/14/2016						<0.002	
11/9/2016	<0.002	<0.002	<0.002				<0.002
11/10/2016				<0.002	<0.002		
1/17/2017	<0.002		<0.002				
1/18/2017				<0.002	<0.002		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	0.0022 (J)	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		<0.002		<0.002	<0.002	<0.002	<0.002
2/25/2019	<0.002		<0.002				
2/26/2019		<0.002		<0.002	<0.002	<0.002	<0.002
2/3/2020	<0.002		<0.002				
2/4/2020				<0.002	<0.002	<0.002	<0.002
2/5/2020		<0.002					
3/16/2020	<0.002		<0.002				
3/17/2020		<0.002		<0.002	<0.002	<0.002	<0.002
2/2/2021	0.00062 (J)	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					
8/15/2022	<0.002		<0.002			<0.002	<0.002
8/16/2022		<0.002		<0.002	0.00051 (J)		

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		<0.002	<0.002	<0.002	<0.002		
9/13/2016	<0.002						
9/14/2016		<0.002	<0.002	<0.002	<0.002		<0.002
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		<0.002	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		<0.002					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		<0.002	<0.002	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		<0.002	<0.002	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		<0.002	<0.002	0.0023 (J)			
3/28/2018	<0.002						
3/29/2018			<0.002	<0.002	<0.002	<0.002	
3/30/2018		<0.002					<0.002
2/26/2019	<0.002						
2/27/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/5/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		<0.002			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		<0.002			<0.002	<0.002	
3/12/2021			<0.002	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	<0.002	<0.002	
8/26/2021		<0.002					<0.002
3/3/2022	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			
8/16/2022	<0.002		0.00053 (J)				
8/17/2022							<0.002
8/18/2022				<0.002	<0.002		
8/19/2022		<0.002				<0.002	

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002	<0.002
1/11/2022					<0.002	0.00078 (J)	0.0012 (J)
1/12/2022				0.00066 (J)			
3/3/2022	<0.002		<0.002		0.00053 (J)		
3/4/2022		<0.002		0.0011 (J)		0.00082 (J)	0.0018 (J)
6/6/2022					<0.002		0.0013 (J)
6/7/2022				<0.002		0.00054 (J)	
8/16/2022		<0.002			0.00055 (J)		
8/17/2022	<0.002		0.00058 (J)				<0.002
8/18/2022				<0.002			
8/19/2022						<0.002	

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.002	<0.002		
7/20/2016			<0.002	<0.002		
9/14/2016				<0.002		
9/15/2016			<0.002			
11/14/2016			<0.002			
2/6/2017			<0.002			
2/9/2017				<0.002		
3/15/2017			<0.002	0.0011 (J)		
4/11/2017				<0.002		
4/26/2017			<0.002	<0.002		
8/10/2017			<0.002	<0.002		
3/29/2018			<0.002	<0.002		
2/27/2019			<0.002			
2/28/2019				<0.002		
2/5/2020				<0.002		
2/7/2020			<0.002			
3/19/2020			<0.002	0.00041 (J)		
2/3/2021			<0.002			
2/4/2021				0.00041 (J)		
3/11/2021			<0.002			
3/12/2021				<0.002		
8/26/2021	<0.002	<0.002	<0.002	<0.002		
1/11/2022	<0.002	<0.002				
3/3/2022	<0.002		<0.002	0.008		
3/4/2022		<0.002				
6/6/2022	<0.002					
6/7/2022		<0.002				
8/16/2022			0.011			
8/17/2022		<0.002		0.0043		
8/18/2022	<0.002					
10/19/2022					<0.002	<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	0.00061 (J)	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	0.00074 (J)	<0.001	<0.001	<0.001		<0.001
9/14/2016						0.00069 (J)	
11/9/2016	<0.001	<0.001	<0.001				<0.001
11/10/2016				<0.001	0.00078 (J)		
1/17/2017	<0.001		0.00099 (J)				
1/18/2017				0.00086 (J)	0.0012 (J)		0.0008 (J)
1/19/2017		0.00079 (J)				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		0.0014		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		0.00062 (J)		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		0.00046 (J)		<0.001	<0.001	<0.001	<0.001
6/13/2018	0.001 (J)	0.00057 (J)				<0.001	<0.001
6/14/2018			0.0012 (J)	0.00087 (J)	0.0005 (J)		
9/24/2018			<0.001				
9/27/2018	<0.001						
9/28/2018		<0.001					
10/2/2018							<0.001
10/3/2018				0.00069 (J)	<0.001	0.00085 (J)	
2/25/2019	<0.001		<0.001				
2/26/2019		0.00054 (J)		<0.001	0.00033 (J)	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	0.00036 (J)
9/17/2019		0.0004 (J)	0.00033 (J)		0.00035 (J)		
9/18/2019				<0.001			
2/3/2020	<0.001		<0.001				
2/4/2020				<0.001	0.00033 (J)	<0.001	<0.001
2/5/2020		0.00058 (J)					
3/16/2020	0.00038 (J)		0.00043 (J)				
3/17/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	<0.001	<0.001	<0.001		
2/3/2021						<0.001	<0.001
3/10/2021		<0.001	0.00063 (J)	<0.001	0.00036 (J)	<0.001	
3/11/2021	<0.001						<0.001
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	<0.001
8/16/2022		<0.001		<0.001	<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					0.00345
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						0.0031
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016	<0.001				<0.001		0.0023
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	0.001 (J)						
1/24/2017							0.0019
1/27/2017			0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017		<0.001					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						0.0016
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						0.0006 (J)	
4/11/2017						0.0032	
4/25/2017	<0.001						0.0019
4/26/2017		<0.001	<0.001	<0.001	<0.001	0.0019	
5/17/2017						0.0014	
6/7/2017						0.0021	
7/11/2017						0.00095 (J)	
8/8/2017	<0.001						
8/9/2017					<0.001		0.0017
8/10/2017		<0.001	<0.001	0.00048 (J)			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018		<0.001					0.0018
6/14/2018	0.0005 (J)	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018	<0.001						0.0024
10/4/2018		0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019		<0.001					0.0019
9/18/2019	<0.001				0.00039 (J)	<0.001	0.0016
9/19/2019		0.00038 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020							0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020					0.00039 (J)	<0.001	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			0.00061 (J)
9/24/2020			0.00051 (J)		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/10/2021	<0.001						
3/11/2021		0.00031 (J)			0.00035 (J)	<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			0.00084 (J)
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					0.0012
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	0.00057 (J)
3/4/2022				0.00037 (J)			
8/16/2022	<0.001		<0.001				
8/17/2022							0.00052 (J)
8/18/2022				<0.001	0.00034 (J)		
8/19/2022		<0.001				<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	0.0009 (J)						
7/20/2016		0.00058 (J)					
9/14/2016	0.0014	<0.001					
11/10/2016	0.0021	0.00082 (J)					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.0015						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.0014		<0.001				
4/11/2017			<0.001				
4/25/2017	0.0014	0.00095 (J)					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0013	<0.001					
8/10/2017			<0.001				
3/29/2018	0.0014		<0.001				
3/30/2018		<0.001					
6/14/2018	<0.001	0.00076 (J)	<0.001				
10/4/2018	0.0013	0.00088 (J)	<0.001				
2/26/2019		0.0005 (J)					
2/27/2019	0.00046 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	0.00075 (J)	<0.001				
3/18/2020	<0.001	0.00054 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	0.00067 (J)	<0.001				
2/3/2021			<0.001				
2/4/2021	<0.001	0.00035 (J)					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	0.00031 (J)	0.00057 (J)	<0.001	<0.001
1/11/2022					0.00036 (J)	<0.001	<0.001
1/12/2022				0.00052 (J)			
3/3/2022	<0.001		<0.001		0.00053 (J)		
3/4/2022		<0.001		0.00078 (J)		0.00046 (J)	<0.001
6/6/2022					0.00083 (J)		<0.001
6/7/2022				0.00033 (J)		0.00029 (J)	
8/16/2022		<0.001			0.00028 (J)		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.0013	<0.001		
7/20/2016			0.00055 (J)	0.00078 (J)		
9/14/2016				<0.001		
9/15/2016			<0.0013			
11/14/2016			<0.0013			
2/6/2017			<0.0013			
2/9/2017				0.0017		
3/15/2017			<0.0013	0.00047 (J)		
4/11/2017				<0.001		
4/26/2017			<0.0013	<0.001		
8/10/2017			<0.0013	<0.001		
3/29/2018			<0.0013	<0.001		
6/14/2018			<0.0013	<0.001		
10/4/2018			0.0015	<0.001		
2/27/2019			0.00047 (J)			
2/28/2019				<0.001		
4/3/2019			<0.0013	<0.001		
9/19/2019			0.00032 (J)	<0.001		
2/5/2020				<0.001		
2/7/2020			0.0011			
3/19/2020			0.00071 (J)	<0.001		
9/22/2020			0.0011			
9/23/2020				<0.001		
2/3/2021			0.0013			
2/4/2021				<0.001		
3/11/2021			0.0009 (J)			
3/12/2021				<0.001		
8/26/2021	0.0033	<0.001	0.0013	<0.001		
1/11/2022	0.0017	<0.001				
3/3/2022	0.0029		0.0014	<0.001		
3/4/2022		<0.001				
6/6/2022	0.00054 (J)					
6/7/2022		<0.001				
8/16/2022			0.00097 (J)			
8/17/2022		<0.001		<0.001		
8/18/2022	0.00028 (J)					
10/19/2022					<0.001	<0.001

Time Series

Constituent: Barium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.041	0.0221	0.0308				
5/18/2016				0.0174	0.00723	0.0198	0.00518
7/19/2016	0.038	0.018	0.022			0.015	0.0049
7/20/2016				0.012	0.0051		
9/13/2016	0.029	0.021	0.021	0.013	0.0058		0.006
9/14/2016						0.062	
11/9/2016	0.041	0.011	0.025				0.0066
11/10/2016				0.013	0.0063		
1/17/2017	0.044		0.017				
1/18/2017				0.014	0.0059		0.007
1/19/2017		0.012				0.034	
3/13/2017	0.042		0.019				
3/14/2017		0.017		0.014	0.0058	0.018	0.014
4/24/2017	0.039		0.019				
4/25/2017		0.017		0.015	0.0056	0.018	0.0062
8/8/2017	0.044	0.021	0.022	0.015			0.0065
8/9/2017					0.0056	0.016	
3/27/2018	0.041		0.021				
3/28/2018		0.019		0.014	0.0052	0.015	0.0059
6/13/2018	0.045	0.013				0.016	0.0067
6/14/2018			0.02	0.013	0.0057		
9/24/2018			0.02				
9/27/2018	0.047						
9/28/2018		0.014					
10/2/2018							0.0066
10/3/2018				0.014	0.0054	0.016	
2/25/2019	0.049		0.027				
2/26/2019		0.015		0.014	0.012	0.02	0.011
4/1/2019	0.044		0.027				
4/2/2019		0.014		0.014	0.0056	0.016	0.0069
9/16/2019	0.05					0.027	0.0073 (J)
9/17/2019		0.013	0.024		0.0063 (J)		
9/18/2019				0.013			
2/3/2020	0.053		0.045				
2/4/2020				0.019	0.0087 (J)	0.022	0.013
2/5/2020		0.02					
3/16/2020	0.046		0.026				
3/17/2020		0.013		0.013	0.0059 (J)	0.017	0.0081 (J)
9/21/2020			0.024	0.015	0.006 (J)		
9/22/2020	0.048	0.015				0.032	0.0079 (J)
2/2/2021	0.05	0.017	0.025	0.015	0.006 (J)		
2/3/2021						0.015	0.0079 (J)
3/10/2021		0.016	0.024	0.014	0.0057 (J)	0.016	
3/11/2021	0.046						0.0077 (J)
8/23/2021			0.023				
8/24/2021	0.049				0.0055 (J)	0.028	0.0074 (J)
8/25/2021		0.015		0.014			
2/28/2022					0.0053 (J)		
3/1/2022	0.047		0.02	0.014		0.017	0.0071 (J)
3/3/2022		0.013					
8/15/2022	0.045		0.022			0.029	0.0069 (J)
8/16/2022		0.012		0.014	0.0062 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0114	0.0391					0.0206
5/19/2016			0.031	0.0214	0.055		
7/19/2016	0.012						0.019
7/20/2016		0.028	0.029	0.019	0.039		
9/13/2016	0.011						
9/14/2016		0.035	0.031	0.02	0.04		0.02
11/10/2016	0.016				0.04		0.02
11/11/2016		0.042	0.034	0.022			
1/18/2017	0.013						
1/24/2017							0.017
1/27/2017			0.042	0.023	0.042		
2/6/2017		0.041					
2/8/2017						0.037	
2/23/2017						0.051	
3/14/2017	0.01						0.018
3/15/2017		0.04	0.032	0.024	0.058		
3/17/2017						0.046	
4/11/2017						0.055	
4/25/2017	0.012						0.018
4/26/2017		0.039	0.03	0.004	0.054	0.042	
5/17/2017						0.052	
6/7/2017						0.06	
7/11/2017						0.038	
8/8/2017	0.012						
8/9/2017					0.055		0.02
8/10/2017		0.038	0.03	0.017			
3/28/2018	0.01						
3/29/2018			0.028	0.017	0.061	0.028	
3/30/2018		0.042					0.021
6/14/2018	0.012	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018	0.011						0.024
10/4/2018		0.04	0.035	0.017	0.046	0.036	
2/26/2019	0.013						
2/27/2019		0.04	0.04	0.016	0.054	0.028	0.023
4/2/2019	0.011						
4/3/2019			0.035	0.015	0.056	0.026	
4/4/2019		0.04					0.022
9/18/2019	0.012				0.062	0.025	0.026
9/19/2019		0.038	0.033	0.016			
2/5/2020	0.012	0.061	0.047	0.016	0.052	0.077	
2/7/2020							0.022
3/17/2020	0.012						
3/18/2020		0.035	0.038	0.016			0.021
3/19/2020					0.072	0.031	
9/22/2020	0.013						
9/23/2020		0.035		0.016			0.027
9/24/2020			0.061		0.038	0.034	
2/2/2021	0.012						
2/3/2021			0.039	0.015			
2/4/2021		0.035			0.047	0.029	0.028
3/10/2021	0.011						
3/11/2021		0.033			0.049	0.032	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.045	0.017			0.028
8/24/2021	0.012						
8/25/2021			0.04	0.016	0.046	0.03	
8/26/2021		0.032					0.029
3/3/2022	0.012	0.033	0.04		0.045	0.029	0.029
3/4/2022				0.016			
8/16/2022	0.011		0.038				
8/17/2022							0.027
8/18/2022				0.014	0.041		
8/19/2022		0.03				0.026	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0715	0.0219					
7/19/2016	0.069						
7/20/2016		0.019					
9/14/2016	0.066	0.017					
11/10/2016	0.069	0.02					
11/11/2016			0.0022 (J)				
1/20/2017		0.018					
1/24/2017	0.068						
2/6/2017			0.0018 (J)				
3/14/2017		0.019					
3/15/2017	0.065		0.0015 (J)				
4/11/2017			0.0014 (J)				
4/25/2017	0.057	0.023					
4/26/2017			0.0014 (J)				
6/7/2017			0.0014 (J)				
7/11/2017			0.0013 (J)				
8/9/2017	0.069	0.017					
8/10/2017			0.0012 (J)				
3/29/2018	0.05		0.00097 (J)				
3/30/2018		0.015					
6/14/2018	0.046	0.013	0.0011 (J)				
10/4/2018	0.046	0.013	0.0012 (J)				
2/26/2019		0.012					
2/27/2019	0.028						
2/28/2019			<0.01				
4/2/2019			0.0013 (J)				
4/4/2019	0.027	0.011					
9/18/2019	0.032	0.011	<0.01				
2/7/2020	0.034	0.011	0.0065 (J)				
3/18/2020	0.034	0.012					
5/4/2020			<0.01				
9/23/2020	0.037	0.012	<0.01				
2/3/2021			<0.01				
2/4/2021	0.039	0.012					
3/11/2021	0.037	0.011	<0.01				
8/25/2021	0.035	0.011					
8/26/2021			<0.01	<0.01	0.0086 (J)	0.031	0.0078 (J)
1/11/2022					0.0076 (J)	0.04	0.0072 (J)
1/12/2022				<0.01			
3/3/2022	0.041		<0.01		0.0068 (J)		
3/4/2022		0.011		<0.01		0.038	0.0081 (J)
6/6/2022					0.0079 (J)		0.0097 (J)
6/7/2022				<0.01		0.025	
8/16/2022		0.011			0.0039 (J)		
8/17/2022	0.032		0.0012 (J)				0.0089 (J)
8/18/2022				0.00091 (J)			
8/19/2022						0.023	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			0.0026	<0.01		
7/20/2016			0.0017 (J)	0.0014 (J)		
9/14/2016				0.00092 (J)		
9/15/2016			0.0039			
11/14/2016			0.00085 (J)			
2/6/2017			0.0011 (J)			
2/9/2017				0.0015 (J)		
3/15/2017			0.0013 (J)	0.00054 (J)		
4/11/2017				0.0007 (J)		
4/26/2017			0.00098 (J)	<0.01		
8/10/2017			0.0025	0.00053 (J)		
3/29/2018			0.00085 (J)	<0.01		
6/14/2018			0.0028	0.00088 (J)		
10/4/2018			0.0017 (J)	0.00076 (J)		
2/27/2019			<0.01			
2/28/2019				0.0023 (J)		
4/3/2019			0.001 (J)	<0.01		
9/19/2019			<0.01	0.0018 (J)		
2/5/2020				0.0022 (J)		
2/7/2020			<0.01			
3/19/2020			<0.01	0.0021 (J)		
9/22/2020			<0.01			
9/23/2020				<0.01		
2/3/2021			<0.01			
2/4/2021				0.0016 (J)		
3/11/2021			<0.01			
3/12/2021				<0.01		
8/26/2021	0.042	0.41	<0.01	<0.01		
1/11/2022	0.029	0.38				
3/3/2022	0.028		<0.01	<0.01		
3/4/2022		0.38				
6/6/2022	0.032					
6/7/2022		0.34				
8/16/2022			0.0014 (J)			
8/17/2022		0.31		<0.01		
8/18/2022	0.041					
10/19/2022					0.0069 (J)	0.0036 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<0.0025	<0.0025				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	<0.0025		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<0.0025	<0.0025
6/14/2018			<0.0025	<0.0025	<0.0025		
9/24/2018			<0.0025				
9/27/2018	<0.0025						
9/28/2018		<0.0025					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	0.00032 (J)					0.00036 (J)	0.0011
9/17/2019		<0.0025	0.00019 (J)		<0.0025		
9/18/2019				<0.0025			
2/3/2020	<0.0025		<0.0025				
2/4/2020				<0.0025	<0.0025	<0.0025	<0.0025
2/5/2020		<0.0025					
3/16/2020	0.00071 (J)		0.00076 (J)				
3/17/2020		<0.0025		0.00021 (J)	<0.0025	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025
3/10/2021		<0.0025	0.00065 (J)	0.00019 (J)	<0.0025	<0.0025	
3/11/2021	0.00029 (J)						<0.0025
8/23/2021			<0.0025				
8/24/2021	<0.0025				<0.0025	<0.0025	<0.0025
8/25/2021		<0.0025		<0.0025			
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					
8/15/2022	<0.0025		<0.0025			<0.0025	<0.0025
8/16/2022		<0.0025		<0.0025	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<0.0025	<0.0025	<0.0025	<0.0025		
9/13/2016	<0.0025						
9/14/2016		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<0.0025	<0.0025		
2/6/2017		<0.0025					
2/8/2017						<0.0025	
2/23/2017						<0.0025	
3/14/2017	<0.0025						<0.0025
3/15/2017		<0.0025	<0.0025	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<0.0025	<0.0025	<0.0025	
3/30/2018		<0.0025					<0.0025
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/26/2019	<0.0025						
2/27/2019		<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	0.00032 (J)	<0.0025
9/19/2019		<0.0025	<0.0025	<0.0025			
2/5/2020	0.00041 (J)	<0.0025	<0.0025	<0.0025	<0.0025	0.00024 (J)	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	0.00025 (J)	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	0.00024 (J)	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	0.00026 (J)	<0.0025
3/10/2021	<0.0025						
3/11/2021		<0.0025			<0.0025	<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.0025	<0.0025			<0.0025
8/24/2021	<0.0025						
8/25/2021			<0.0025	<0.0025	<0.0025	<0.0025	
8/26/2021		<0.0025					<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				<0.0025	<0.0025		
8/19/2022		<0.0025				<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0025	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	<0.0025	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	<0.0025						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	<0.0025		<0.0025				
4/11/2017			<0.0025				
4/25/2017	<0.0025	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	<0.0025	<0.0025					
8/10/2017			<0.0025				
3/29/2018	<0.0025		<0.0025				
3/30/2018		<0.0025					
6/14/2018	<0.0025	<0.0025	<0.0025				
10/4/2018	<0.0025	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00022 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	<0.0025	<0.0025					
9/18/2019	<0.0025	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	<0.0025	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
3/11/2021	<0.0025	<0.0025	<0.0025				
8/25/2021	<0.0025	<0.0025					
8/26/2021			<0.0025	0.0081	<0.0025	0.00053 (J)	0.00089 (J)
1/11/2022					<0.0025	0.00057 (J)	0.0012 (J)
1/12/2022				0.012			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		0.01		0.00066 (J)	0.00097 (J)
6/6/2022					<0.0025		0.0011 (J)
6/7/2022				0.0089		0.00055 (J)	
8/16/2022		<0.0025			0.00022 (J)		
8/17/2022	<0.0025		<0.0025				0.00078 (J)
8/18/2022				0.0081			
8/19/2022						0.00063 (J)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			0.00102 (J)	<0.0025		
7/20/2016			0.0014 (J)	<0.0025		
9/14/2016				<0.0025		
9/15/2016			0.00093 (J)			
11/14/2016			0.0014 (J)			
2/6/2017			0.0017 (J)			
2/9/2017				0.00041 (J)		
3/15/2017			0.0016 (J)	<0.0025		
4/11/2017				<0.0025		
4/26/2017			0.0017 (J)	<0.0025		
8/10/2017			0.0017 (J)	0.00034 (J)		
3/29/2018			0.0018 (J)	<0.0025		
6/14/2018			0.0015 (J)	<0.0025		
10/4/2018			0.0019 (J)	0.00036 (J)		
2/27/2019			0.0021 (J)			
2/28/2019				0.00031 (J)		
4/3/2019			0.0019 (J)	<0.0025		
9/19/2019			0.0019	0.00041 (J)		
2/5/2020				0.0004 (J)		
2/7/2020			0.0023			
3/19/2020			0.0028	0.00056 (J)		
9/22/2020			0.0025			
9/23/2020				0.00034 (J)		
2/3/2021			0.0025			
2/4/2021				0.00039 (J)		
3/11/2021			0.0022 (J)			
3/12/2021				0.00034 (J)		
8/26/2021	0.014	0.00028 (J)	0.002 (J)	0.00038 (J)		
1/11/2022	0.014	0.0002 (J)				
3/3/2022	0.01		0.0027	0.00036 (J)		
3/4/2022		<0.0025				
6/6/2022	0.0062					
6/7/2022		0.0003 (J)				
8/16/2022			0.0018 (J)			
8/17/2022		0.00022 (J)		0.00033 (J)		
8/18/2022	0.0044					
10/19/2022					0.004	0.00054 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.08	<0.08	<0.08				
5/18/2016				<0.08	<0.08	<0.08	<0.08
7/19/2016	<0.08	<0.08	<0.08			<0.08	<0.08
7/20/2016				<0.08	<0.08		
9/13/2016	<0.08	<0.08	<0.08	<0.08	<0.08		<0.08
9/14/2016						<0.08	
11/9/2016	<0.08	<0.08	<0.08				<0.08
11/10/2016				<0.08	<0.08		
1/17/2017	<0.08		<0.08				
1/18/2017				<0.08	<0.08		<0.08
1/19/2017		<0.08				<0.08	
3/13/2017	<0.08		<0.08				
3/14/2017		<0.08		<0.08	<0.08	<0.08	<0.08
4/24/2017	<0.08		<0.08				
4/25/2017		<0.08		<0.08	<0.08	<0.08	<0.08
8/8/2017	<0.08	<0.08	<0.08	<0.08			<0.08
8/9/2017					<0.08	<0.08	
10/10/2017	<0.08		<0.08				
10/11/2017		<0.08		<0.08	<0.08	<0.08	<0.08
6/13/2018	<0.08	<0.08				<0.08	<0.08
6/14/2018			<0.08	<0.08	<0.08		
9/24/2018			<0.08				
9/27/2018	<0.08						
9/28/2018		<0.08					
10/2/2018							<0.08
10/3/2018				<0.08	<0.08	<0.08	
4/1/2019	<0.08		<0.08				
4/2/2019		<0.08		<0.08	<0.08	<0.08	<0.08
9/16/2019	<0.08					<0.08	<0.08
9/17/2019		<0.08	<0.08		<0.08		
9/18/2019				<0.08			
3/16/2020	<0.08		0.048 (J)				
3/17/2020		<0.08		<0.08	<0.08	<0.08	<0.08
9/21/2020			<0.08	<0.08	<0.08		
9/22/2020	<0.08	<0.08				<0.08	<0.08
3/10/2021		<0.08	0.039 (J)	<0.08	<0.08	<0.08	
3/11/2021	<0.08						<0.08
8/23/2021			<0.08				
8/24/2021	<0.08				<0.08	<0.08	<0.08
8/25/2021		0.1		<0.08			
2/28/2022					<0.08		
3/1/2022	<0.08		<0.08	<0.08		<0.08	<0.08
3/3/2022		0.1					
8/15/2022	<0.08		0.066 (J)			<0.08	<0.08
8/16/2022		<0.08		<0.08	<0.08		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.08	<0.08					<0.08
5/19/2016			<0.08	<0.08	0.0252 (J)		
7/19/2016	<0.08						<0.08
7/20/2016		<0.08	<0.08	<0.08	<0.08		
9/13/2016	<0.08						
9/14/2016		<0.08	<0.08	<0.08	<0.08		<0.08
11/10/2016	<0.08				<0.08		<0.08
11/11/2016		<0.08	<0.08	<0.08			
1/18/2017	<0.08						
1/24/2017							<0.08
1/27/2017			0.021 (J)	0.047 (J)	0.033 (J)		
2/6/2017		<0.08					
2/8/2017						<0.08	
2/23/2017						<0.08	
3/14/2017	<0.08						<0.08
3/15/2017		0.032 (J)	0.058	0.024 (J)	<0.08		
3/17/2017						<0.08	
4/11/2017						<0.08	
4/25/2017	<0.08						<0.08
4/26/2017		<0.08	<0.08	<0.08	<0.08	<0.08	
5/17/2017						<0.08	
6/7/2017						<0.08	
7/11/2017						<0.08	
8/8/2017	<0.08						
8/9/2017					<0.08		<0.08
8/10/2017		<0.08	<0.08	<0.08			
10/11/2017	<0.08					<0.08	<0.08
10/12/2017		<0.08	<0.08	<0.08	<0.08		
6/14/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
10/3/2018	<0.08						<0.08
10/4/2018		<0.08	<0.08	<0.08	<0.08	<0.08	
4/2/2019	<0.08						
4/3/2019			<0.08	<0.08	<0.08	<0.08	
4/4/2019		0.024 (J)					<0.08
9/18/2019	<0.08				<0.08	<0.08	<0.08
9/19/2019		<0.08	<0.08	<0.08			
3/17/2020	<0.08						
3/18/2020		0.049 (J)	<0.08	0.039 (J)			0.071 (J)
3/19/2020					0.053 (J)	0.039 (J)	
9/22/2020	<0.08						
9/23/2020		<0.08		<0.08			<0.08
9/24/2020			<0.08		<0.08	<0.08	
3/10/2021	<0.08						
3/11/2021		<0.08			<0.08	<0.08	
3/12/2021			<0.08	<0.08			<0.08
8/24/2021	<0.08						
8/25/2021			<0.08	<0.08	0.063 (J)	0.043 (J)	
8/26/2021		<0.08					<0.08
3/3/2022	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08
3/4/2022				<0.08			
8/16/2022	<0.08		<0.08				
8/17/2022							<0.08

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				<0.08	<0.08		
8/19/2022		<0.08				<0.08	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	4.48	<0.08					
7/19/2016	4.7						
7/20/2016		<0.08					
9/14/2016	5.8	<0.08					
11/10/2016	6.7	<0.08					
11/11/2016			<0.08				
1/20/2017		<0.08					
1/24/2017	6.3						
2/6/2017			<0.08				
3/14/2017		<0.08					
3/15/2017	5.9		0.034 (J)				
4/11/2017			<0.08				
4/25/2017	6.2	<0.08					
4/26/2017			<0.08				
6/7/2017			<0.08				
7/11/2017			<0.08				
8/9/2017	6.3	<0.08					
8/10/2017			<0.08				
10/11/2017	6.8	<0.08					
10/12/2017			<0.08				
6/14/2018	5.4	<0.08	<0.08				
10/4/2018	5.5	<0.08	<0.08				
4/2/2019			<0.08				
4/4/2019	3.2	0.049 (J)					
9/18/2019	2.1	<0.08	<0.08				
3/18/2020	2	0.049 (J)					
5/4/2020			<0.08				
9/23/2020	1.5	<0.08	<0.08				
3/8/2021				1.3			
3/9/2021					0.19	0.33	0.073 (J)
3/11/2021	1.1	<0.08	<0.08				
4/7/2021					0.13		<0.08
4/8/2021				0.98		0.21	
8/25/2021	0.89	<0.08					
8/26/2021			<0.08	2.1	0.087	0.36	0.052 (J)
1/11/2022					0.12	0.39	0.048 (J)
1/12/2022				4.9			
3/3/2022	0.79		<0.08		0.12		
3/4/2022		<0.08		4.3		0.41	<0.08
6/6/2022					0.13		<0.08
6/7/2022				2.8		0.39	
8/16/2022		<0.08			0.099		
8/17/2022	0.73		<0.08				<0.08
8/18/2022				2.2			
8/19/2022						0.33	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			1.42	0.314		
7/20/2016			1.4	0.25		
9/14/2016				0.3		
9/15/2016			1.2			
11/14/2016			1.3			
2/6/2017			1.8			
2/9/2017				0.61		
3/15/2017			1.7	0.42		
4/11/2017				0.37		
4/26/2017			2	0.38		
8/10/2017			1.8	0.29		
10/12/2017			1.8	0.36		
6/14/2018			1.7	0.39		
10/4/2018			1.9	0.37		
4/3/2019			1.7	0.35		
9/19/2019			1.7	0.39		
3/19/2020			2.2	0.55		
9/22/2020			2.5			
9/23/2020				0.68		
3/8/2021		0.48				
3/9/2021	1.8					
3/11/2021			2.4			
3/12/2021				0.64		
4/7/2021	1.9					
4/8/2021		0.43				
8/26/2021	2.1	0.7	2.4	0.56		
1/11/2022	1.7	0.87				
3/3/2022	1.6		2.7	0.62		
3/4/2022		0.72				
6/6/2022	0.64					
6/7/2022		0.78				
8/16/2022			2.3			
8/17/2022		0.82		0.55		
8/18/2022	0.44					
10/19/2022					2.9	0.098

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<0.0025	<0.0025				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	<0.0025		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<0.0025	<0.0025
6/14/2018			<0.0025	<0.0025	<0.0025		
9/24/2018			<0.0025				
9/27/2018	<0.0025						
9/28/2018		<0.0025					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	<0.0025					<0.0025	<0.0025
9/17/2019		<0.0025	<0.0025		<0.0025		
9/18/2019				<0.0025			
2/3/2020	<0.0025		<0.0025				
2/4/2020				<0.0025	<0.0025	<0.0025	<0.0025
2/5/2020		<0.0025					
3/16/2020	<0.0025		<0.0025				
3/17/2020		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					
8/15/2022	<0.0025		<0.0025			<0.0025	<0.0025
8/16/2022		<0.0025		<0.0025	<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<0.0025	<0.0025	<0.0025	<0.0025		
9/13/2016	<0.0025						
9/14/2016		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<0.0025	<0.0025		
2/6/2017		<0.0025					
2/8/2017						<0.0025	
2/23/2017						<0.0025	
3/14/2017	<0.0025						<0.0025
3/15/2017		<0.0025	<0.0025	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<0.0025	<0.0025	<0.0025	
3/30/2018		<0.0025					<0.0025
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/26/2019	<0.0025						
2/27/2019		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	<0.0025	<0.0025
9/19/2019		0.00021 (J)	<0.0025	<0.0025			
2/5/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	<0.0025	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	<0.0025	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	<0.0025	<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				<0.0025	<0.0025		
8/19/2022		<0.0025				<0.0025	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.000362 (J)	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	0.00037 (J)	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	0.00055 (J)						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	0.00067 (J)		<0.0025				
4/11/2017			<0.0025				
4/25/2017	0.00058 (J)	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.00054 (J)	<0.0025					
8/10/2017			<0.0025				
3/29/2018	0.00082 (J)		<0.0025				
3/30/2018		<0.0025					
6/14/2018	0.0007 (J)	<0.0025	<0.0025				
10/4/2018	0.00065 (J)	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00055 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	0.00047 (J)	<0.0025					
9/18/2019	0.00017 (J)	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	0.00022 (J)	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
8/26/2021				<0.0025	<0.0025	<0.0025	<0.0025
1/11/2022					<0.0025	<0.0025	<0.0025
1/12/2022				0.00026 (J)			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		<0.0025		0.00025 (J)	<0.0025
6/6/2022					<0.0025		<0.0025
6/7/2022				<0.0025		<0.0025	
8/16/2022		<0.0025			<0.0025		
8/17/2022	<0.0025		<0.0025				<0.0025
8/18/2022				<0.0025			
8/19/2022						9E-05 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.0025	<0.0025		
7/20/2016			<0.0025	<0.0025		
9/14/2016				<0.0025		
9/15/2016			<0.0025			
11/14/2016			<0.0025			
2/6/2017			<0.0025			
2/9/2017				<0.0025		
3/15/2017			<0.0025	<0.0025		
4/11/2017				<0.0025		
4/26/2017			<0.0025	<0.0025		
8/10/2017			<0.0025	<0.0025		
3/29/2018			<0.0025	<0.0025		
6/14/2018			<0.0025	<0.0025		
10/4/2018			<0.0025	<0.0025		
2/27/2019			<0.0025			
2/28/2019				<0.0025		
4/3/2019			<0.0025	<0.0025		
9/19/2019			<0.0025	<0.0025		
2/5/2020				<0.0025		
2/7/2020			<0.0025			
3/19/2020			<0.0025	<0.0025		
9/22/2020			<0.0025			
9/23/2020				<0.0025		
2/3/2021			<0.0025			
2/4/2021				<0.0025		
8/26/2021	0.00061 (J)	<0.0025				
1/11/2022	0.0004 (J)	<0.0025				
3/3/2022	0.0003 (J)		<0.0025	<0.0025		
3/4/2022		<0.0025				
6/6/2022	0.0003 (J)					
6/7/2022		<0.0025				
8/16/2022			<0.0025			
8/17/2022		0.00012 (J)		<0.0025		
8/18/2022	0.00015 (J)					
10/19/2022					0.00014 (J)	<0.0025

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.927	23.7	12.2				
5/18/2016				2.1	17.9	1.7	27
7/19/2016	1	23	13			1.5	23
7/20/2016				1.7	15		
9/13/2016	0.44	23	13	1.3	16		25
9/14/2016						52	
11/9/2016	1.1	6.7	19				25
11/10/2016				1.6	15		
1/17/2017	1.4		28				
1/18/2017				1.7	17		26
1/19/2017		8.5				13	
3/13/2017	1.1		14				
3/14/2017		13		1.8	17	1.6	20
4/24/2017	1.1		12				
4/25/2017		23		2	17	1.5	28
8/8/2017	1.1	24	18	2			26
8/9/2017					15	1.3	
10/10/2017	1.2		21				
10/11/2017		23		2.1	17	1.5	29
6/13/2018	1.1	11				1.2	25
6/14/2018			12	2	15		
9/24/2018			11				
9/27/2018	1.2						
9/28/2018		11					
10/2/2018							26
10/3/2018				1.8	16	1.4	
4/1/2019	1		12				
4/2/2019		20		1.8	15	1.1	25
9/16/2019	1.3					36	25
9/17/2019		10	13		16		
9/18/2019				1.6			
3/16/2020	1.1		10				
3/17/2020		10		1.7	15	1.4	26
9/21/2020			13	1.8	16		
9/22/2020	1.2	19				58	25
3/10/2021		7.7	11	1.9	16	1.3	
3/11/2021	1.3						26
8/23/2021			13				
8/24/2021	1.2				15	47	26
8/25/2021		16		1.7			
2/28/2022					14		
3/1/2022	1.1		13	1.6		2.1	22
3/3/2022		6.1					
8/15/2022	1.2		12			51	24
8/16/2022		8.8		1.8	16		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	1.36	7.17					32.5
5/19/2016			1.95	15.8	11.4		
7/19/2016	0.88						30
7/20/2016		7	1.5	14	7.1		
9/13/2016	0.93						
9/14/2016		7.7	1.8	16	7.4		37
11/10/2016	6.1				6.4		29
11/11/2016		8.2	1.7	15			
1/18/2017	10						
1/24/2017							28
1/27/2017			3.5	16	6.2		
2/6/2017		9.1					
2/8/2017						3.2	
2/23/2017						4.1	
3/14/2017	1.3						29
3/15/2017		9	3.8	16	6.7		
3/17/2017						2.4	
4/11/2017						4.1	
4/25/2017	1.9						32
4/26/2017		8.1	4	3	6.5	2.5	
5/17/2017						5.2	
6/7/2017						5.2	
7/11/2017						2.3	
8/8/2017	4.8						
8/9/2017					7		30
8/10/2017		8.1	3.5	15			
10/11/2017	0.93					3.8	31
10/12/2017		8.6	2.7	16	7		
6/14/2018	0.94	7.7	2.2	13	5.5	1.1	29
10/3/2018	1.2						31
10/4/2018		8.5	2	15	5.9	2	
4/2/2019	1.1						
4/3/2019			1.7	14	4.7	0.84	
4/4/2019		7.9					30
9/18/2019	1.5				4.9	0.85	31
9/19/2019		7.5	1.4	14			
3/17/2020	0.82						
3/18/2020		7.5	1.6	14			30
3/19/2020					5	0.89	
9/22/2020	0.89						
9/23/2020		7.7		13			32
9/24/2020			5.2		1.4	0.99	
3/10/2021	0.89						
3/11/2021		7.9			4	0.79	
3/12/2021			1.6	15			31
8/24/2021	1.7						
8/25/2021			1.5	14	4	0.7	
8/26/2021		7.6					31
3/3/2022	1.4	7.1	1.3		3.4	0.65	28
3/4/2022				12			
8/16/2022	0.94		1.6				
8/17/2022							29

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				13	3.5		
8/19/2022		7.3				0.64	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	168	8.24					
7/19/2016	190						
7/20/2016		11					
9/14/2016	230	12					
11/10/2016	240	11					
11/11/2016			12				
1/20/2017		10					
1/24/2017	280						
2/6/2017			11				
3/14/2017		8.8					
3/15/2017	260		10				
4/11/2017			11				
4/25/2017	300	12					
4/26/2017			8.4				
6/7/2017			9				
7/11/2017			9.5				
8/9/2017	350	11					
8/10/2017			8.8				
10/11/2017	360	10					
10/12/2017			9.5				
6/14/2018	260	6.2	8.9				
10/4/2018	250	6.4	10				
4/2/2019			11				
4/4/2019	110	5.6					
9/18/2019	62	5.5	8.8				
3/18/2020	66	6.3					
5/4/2020			15				
9/23/2020	43	5.9	13				
3/8/2021				90			
3/9/2021					66	15	3.2
3/11/2021	32	5.7	15				
4/7/2021					67		2.7
4/8/2021				88		14	
8/25/2021	27	6					
8/26/2021			10	120	51	24	4.6
1/11/2022					57	32	3.1
1/12/2022				220			
3/3/2022	24		12		54		
3/4/2022		5.3		200		31	4
6/6/2022					58		4.5
6/7/2022				140		19	
8/16/2022		5.6			55		
8/17/2022	20		9.8				4.6
8/18/2022				110			
8/19/2022						18	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			31.4	8.53		
7/20/2016			28	8.2		
9/14/2016				8.8		
9/15/2016			27			
11/14/2016			32			
2/6/2017			41			
2/9/2017				10		
3/15/2017			38	8.6		
4/11/2017				8.6		
4/26/2017			39	7.1		
8/10/2017			53	7.5		
10/12/2017			60	8.2		
6/14/2018			52	7.5		
10/4/2018			65	8		
4/3/2019			61	7.2		
9/19/2019			57	8.1		
3/19/2020			79	9.3		
9/22/2020			81			
9/23/2020				10		
3/8/2021		14				
3/9/2021	65					
3/11/2021			83			
3/12/2021				11		
4/7/2021	71					
4/8/2021		16				
8/26/2021	69	16	85	9.3		
1/11/2022	51	16				
3/3/2022	42		88	8.6		
3/4/2022		16				
6/6/2022	22					
6/7/2022		15				
8/16/2022			83			
8/17/2022		15		9		
8/18/2022	16					
10/19/2022					130	5.9

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	3.8	6.05	2.5				
5/18/2016				1.92	1.45	2.14	1.58
7/19/2016	3.9	4	2.6			2.4	1.6
7/20/2016				1.8	1.4		
9/13/2016	3.6	3.1	2.4	1.7	1.4		1.4
9/14/2016						2.1	
11/9/2016	3.9	2.3	2.3				1.5
11/10/2016				1.6	1.3		
1/17/2017	3.8		2.3				
1/18/2017				1.7	1.3		1.5
1/19/2017		2				1.8	
3/13/2017	3.4		2.2				
3/14/2017		1.9		1.6	1.2	2	2.5
4/24/2017	3.4		2.2				
4/25/2017		1.9		1.6	1.2	1.8	1.3
8/8/2017	3.6	2	2.3	1.7			1.4
8/9/2017					1.2	1.9	
10/10/2017	3.6		2.5				
10/11/2017		1.9		1.6	1.2	2.1	1.3
6/13/2018	3.8	2				1.7	1.4
6/14/2018			2.3	1.6	1.2		
9/24/2018			2.4				
9/27/2018	4						
9/28/2018		2.1					
10/2/2018							1.4
10/3/2018				1.6	1.2	1.8	
4/1/2019	4		2.4				
4/2/2019		2.6		1.7	1.2	1.7	1.5
9/16/2019	4					1.8	1.5
9/17/2019		2	2.4		1.2		
9/18/2019				1.7			
3/16/2020	4.3		2.7				
3/17/2020		2.3		1.8	1.4	1.6	1.7
9/21/2020			2.5	1.5	1.2		
9/22/2020	4	2.1				1.5	1.4
3/10/2021		1.9	2.6	1.8	1.2	1.8	
3/11/2021	4.5						1.5
8/23/2021			3.3				
8/24/2021	5.1				1.5	2.1	1.8
8/25/2021		2.3		1.9			
2/28/2022					1.2		
3/1/2022	4.1		2.7	1.8		1.5	1.5
3/3/2022		2					
8/15/2022	4		2.7			1.5	1.5
8/16/2022		1.9		1.6	1.2		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	2.06	1.45					4.59
5/19/2016			3.21	3.8	2.26		
7/19/2016	2.1						5.9
7/20/2016		1.6	3.4	3.8	1.9		
9/13/2016	2						
9/14/2016		1.5	3.1	3.7	1.6		7.9
11/10/2016	1.8				1.4		6.5
11/11/2016		1.5	3.2	3.5			
1/18/2017	1.8						
1/24/2017							4.1
1/27/2017			3.4	3.1	1.4		
2/6/2017		1.4					
2/8/2017						2.5	
2/23/2017						4.3	
3/14/2017	1.8						4.4
3/15/2017		1.4	3.1	3.2	1.4		
3/17/2017						4.8	
4/11/2017						3.8	
4/25/2017	1.8						4
4/26/2017		1.3	3.1	3.2	1.3	4.8	
5/17/2017						3.9	
6/7/2017						3.2	
7/11/2017						4.1	
8/8/2017	1.9						
8/9/2017					1.4		3.6
8/10/2017		1.4	3.1	3.4			
10/11/2017	1.8					2.2	5
10/12/2017		1.3	3	3.1	1.2		
6/14/2018	1.7	1.3	3	3	1.2	2.8	4.3
10/3/2018	1.8						4.8
10/4/2018		1.3	3.1	3.1	1.2	2.2	
4/2/2019	1.9						
4/3/2019			3.3	3	1.2	2.4	
4/4/2019		1.4					3.7
9/18/2019	2				1.2	2.2	3.2
9/19/2019		1.5	3.2	3.2			
3/17/2020	2.2						
3/18/2020		1.5	3.2	3.2			1.7
3/19/2020					1.3	1.9	
9/22/2020	1.8						
9/23/2020		1.3		2.8			1.5
9/24/2020			1		1.6	3.1	
3/10/2021	1.9						
3/11/2021		1.7			1.2	2.6	
3/12/2021			3.6	3.5			1.6
8/24/2021	1.9						
8/25/2021			3.5	3.7	1.2	2.8	
8/26/2021		1.6					1.4
3/3/2022	2.1	1.6	3.6		1	2.4	1.4
3/4/2022				3.2			
8/16/2022	1.9		3.5				
8/17/2022							1.2

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				3	0.98 (J)		
8/19/2022		1.4				2.1	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	217	2.72					
7/19/2016	250						
7/20/2016		1.9					
9/14/2016	260	1.6					
11/10/2016	290	1.6					
11/11/2016			2.6				
1/20/2017		1.5					
1/24/2017	310						
2/6/2017			2.6				
3/14/2017		1.5					
3/15/2017	330		2.4				
4/11/2017			2.3				
4/25/2017	330	1.8					
4/26/2017			2.3				
6/7/2017			2.5				
7/11/2017			2.3				
8/9/2017	330	1.4					
8/10/2017			2.5				
10/11/2017	320	1.5					
10/12/2017			2.3				
6/14/2018	290	1.5	2.4				
10/4/2018	290	1.5	2.6				
4/2/2019			2.5				
4/4/2019	170	1.4					
9/18/2019	100	1.5	2.7				
3/18/2020	93	1.5					
5/4/2020			2.8				
9/23/2020	58	1.2	2.6				
3/8/2021				70			
3/9/2021					58	2.9	3.5
3/11/2021	49	1.3	2.9				
4/7/2021					50		3.7
4/8/2021				57		2.4	
8/25/2021	45	1.6					
8/26/2021			3.3	130	47	4.2	3.3
1/11/2022					44	5.1	2.9
1/12/2022				350			
3/3/2022	42		3.2		45		
3/4/2022		1.3		330		5.3	2.9
6/6/2022					48		3.1
6/7/2022				180		4.3	
8/16/2022		1.3			41		
8/17/2022	35		2.8				3.2
8/18/2022				140			
8/19/2022						4.2	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			17.5	1.46		
7/20/2016			19	1.5		
9/14/2016				1.4		
9/15/2016			19			
11/14/2016			25			
2/6/2017			33			
2/9/2017				1.5		
3/15/2017			38	1.3		
4/11/2017				1.2		
4/26/2017			42	1.2		
8/10/2017			48	1.3		
10/12/2017			60	1.4		
6/14/2018			58	1.2		
10/4/2018			300	1.2		
4/3/2019			70	2		
9/19/2019			70	1.5		
3/19/2020			98	2.1		
9/22/2020			100			
9/23/2020				2.4		
3/8/2021		74				
3/9/2021	110					
3/11/2021			110			
3/12/2021				3.4		
4/7/2021	110					
4/8/2021		77				
8/26/2021	100	79	110	3.1		
1/11/2022	60	75				
3/3/2022	50		130	3.5		
3/4/2022		79				
6/6/2022	41					
6/7/2022		79				
8/16/2022			110			
8/17/2022		77		3.2		
8/18/2022	27					
10/19/2022					200	5

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002			<0.002	<0.002
7/20/2016				<0.002	<0.002		
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
9/14/2016						0.0031	
11/9/2016	<0.002	<0.002	<0.002				<0.002
11/10/2016				<0.002	<0.002		
1/17/2017	<0.002		<0.002				
1/18/2017				<0.002	<0.002		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	<0.002	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		0.0049		<0.002	<0.002	<0.002	<0.002
6/13/2018	<0.002	<0.002				<0.002	<0.002
6/14/2018			<0.002	<0.002	<0.002		
9/24/2018			<0.002				
9/27/2018	<0.002						
9/28/2018		<0.002					
10/2/2018							<0.002
10/3/2018				<0.002	<0.002	<0.002	
2/25/2019	0.0016 (J)		<0.002				
2/26/2019		0.0016 (J)		<0.002	0.0021 (J)	<0.002	0.0023 (J)
4/1/2019	<0.002		<0.002				
4/2/2019		<0.002		<0.002	<0.002	<0.002	<0.002
9/16/2019	0.0016 (J)					<0.002	<0.002
9/17/2019		<0.002	0.0017 (J)		<0.002		
9/18/2019				<0.002			
2/3/2020	<0.002		<0.002				
2/4/2020				<0.002	<0.002	<0.002	<0.002
2/5/2020		<0.002					
3/16/2020	<0.002		<0.002				
3/17/2020		<0.002		<0.002	<0.002	<0.002	<0.002
9/21/2020			<0.002	<0.002	<0.002		
9/22/2020	<0.002	<0.002				<0.002	<0.002
2/2/2021	<0.002	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					
8/15/2022	0.0063		<0.002			<0.002	<0.002
8/16/2022		<0.002		<0.002	<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		0.0012 (J)	<0.002	<0.002	<0.002		
9/13/2016	<0.002						
9/14/2016		<0.002	<0.002	<0.002	<0.002		<0.002
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		0.0015 (J)	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		0.0011 (J)					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		0.0015 (J)	<0.002	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		0.0013 (J)	0.0011 (J)	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		0.0016 (J)	<0.002	<0.002			
3/28/2018	<0.002						
3/29/2018			0.0012 (J)	<0.002	<0.002	<0.002	
3/30/2018		0.0027					<0.002
6/14/2018	<0.002	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018	<0.002						<0.002
10/4/2018		0.0031	<0.002	<0.002	<0.002	<0.002	
2/26/2019	<0.002						
2/27/2019		0.0031	0.0021 (J)	<0.002	0.0018 (J)	<0.002	0.0015 (J)
4/2/2019	<0.002						
4/3/2019			<0.002	<0.002	<0.002	<0.002	
4/4/2019		0.0021 (J)					<0.002
9/18/2019	<0.002				<0.002	<0.002	<0.002
9/19/2019		0.0022	<0.002	<0.002			
2/5/2020	<0.002	0.0022	<0.002	<0.002	<0.002	0.0017 (J)	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
9/22/2020	<0.002						
9/23/2020		0.0018 (J)		<0.002			<0.002
9/24/2020			<0.002		<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		0.0018 (J)			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		0.0023			0.0019 (J)	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0017 (J)	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	0.0017 (J)	<0.002	
8/26/2021		0.0024					<0.002
3/3/2022	<0.002	0.0023	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			
8/16/2022	<0.002		<0.002				
8/17/2022							<0.002
8/18/2022				<0.002	<0.002		
8/19/2022		0.0024				<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
6/14/2018	<0.002	<0.002	<0.002				
10/4/2018	<0.002	<0.002	<0.002				
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
4/2/2019			<0.002				
4/4/2019	<0.002	<0.002					
9/18/2019	<0.002	<0.002	<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
9/23/2020	<0.002	<0.002	<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	<0.002	<0.002	<0.002
1/11/2022					<0.002	<0.002	<0.002
1/12/2022				<0.002			
3/3/2022	<0.002		<0.002		<0.002		
3/4/2022		<0.002		<0.002		<0.002	<0.002
6/6/2022					<0.002		<0.002
6/7/2022				<0.002		<0.002	
8/16/2022		<0.002			<0.002		
8/17/2022	<0.002		<0.002				<0.002
8/18/2022				<0.002			
8/19/2022						<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.002	<0.002		
7/20/2016			<0.002	<0.002		
9/14/2016				<0.002		
9/15/2016			<0.002			
11/14/2016			<0.002			
2/6/2017			<0.002			
2/9/2017				<0.002		
3/15/2017			<0.002	<0.002		
4/11/2017				<0.002		
4/26/2017			<0.002	<0.002		
8/10/2017			<0.002	<0.002		
3/29/2018			<0.002	<0.002		
6/14/2018			<0.002	<0.002		
10/4/2018			<0.002	<0.002		
2/27/2019			<0.002			
2/28/2019				0.0025		
4/3/2019			<0.002	<0.002		
9/19/2019			<0.002	<0.002		
2/5/2020				<0.002		
2/7/2020			<0.002			
3/19/2020			<0.002	<0.002		
9/22/2020			<0.002			
9/23/2020				<0.002		
2/3/2021			<0.002			
2/4/2021				<0.002		
3/11/2021			<0.002			
3/12/2021				<0.002		
8/26/2021	<0.002	<0.002	<0.002	<0.002		
1/11/2022	<0.002	<0.002				
3/3/2022	<0.002		<0.002	<0.002		
3/4/2022		<0.002				
6/6/2022	<0.002					
6/7/2022		<0.002				
8/16/2022			<0.002			
8/17/2022		<0.002		<0.002		
8/18/2022	<0.002					
10/19/2022					0.0024	<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.01	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.01	<0.0025
7/19/2016	0.0014 (J)	0.0019 (J)	0.00086 (J)			0.0014 (J)	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	0.0015 (J)	0.0032	0.00095 (J)	<0.0025	<0.0025		<0.0025
9/14/2016						0.013	
11/9/2016	0.0012 (J)	0.0039	0.0011 (J)				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	0.001 (J)		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		0.0032				0.064 (O)	
3/13/2017	0.0011 (J)		0.00087 (J)				
3/14/2017		0.0045		<0.0025	<0.0025	0.0066	0.0018 (J)
4/24/2017	0.001 (J)		0.0014 (J)				
4/25/2017		0.002 (J)		<0.0025	<0.0025	0.0026	<0.0025
8/8/2017	0.0011 (J)	0.0031	0.0012 (J)	<0.0025			<0.0025
8/9/2017					<0.0025	0.0025	
3/27/2018	0.00091 (J)		0.0012 (J)				
3/28/2018		0.0013 (J)		<0.0025	<0.0025	0.0015 (J)	<0.0025
6/13/2018	0.00094 (J)	0.0021 (J)				0.0011 (J)	<0.0025
6/14/2018			0.00085 (J)	<0.0025	<0.0025		
9/24/2018			0.00085 (J)				
9/27/2018	0.00085 (J)						
9/28/2018		0.0024 (J)					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	0.0013 (J)	
2/25/2019	0.00085 (J)		0.00083 (J)				
2/26/2019		0.00026 (J)		<0.0025	0.00029 (J)	0.0006 (J)	0.00031 (J)
4/1/2019	0.00079 (J)		0.00082 (J)				
4/2/2019		<0.0025		<0.0025	<0.0025	0.00046 (J)	<0.0025
9/16/2019	0.00082					0.0035	9.1E-05 (J)
9/17/2019		0.0012	0.00063		<0.0025		
9/18/2019				<0.0025			
2/3/2020	0.00062		0.00068				
2/4/2020				<0.0025	<0.0025	0.00082	<0.0025
2/5/2020		0.0027					
3/16/2020	0.00092 (J)		0.00066 (J)				
3/17/2020		0.0017 (J)		<0.0025	<0.0025	0.00066 (J)	0.00014 (J)
9/21/2020			0.00054 (J)	<0.0025	<0.0025		
9/22/2020	0.00072 (J)	0.00033 (J)				0.0065	<0.0025
2/2/2021	0.00082 (J)	0.0018 (J)	0.00069 (J)	<0.0025	<0.0025		
2/3/2021						0.0015 (J)	<0.0025
3/10/2021		0.0015 (J)	0.00073 (J)	<0.0025	<0.0025	0.0011 (J)	
3/11/2021	0.00081 (J)						<0.0025
8/23/2021			0.00049 (J)				
8/24/2021	0.0016 (J)				<0.0025	0.00079 (J)	<0.0025
8/25/2021		0.00084 (J)		<0.0025			
2/28/2022					<0.0025		
3/1/2022	0.00073 (J)		0.00038 (J)	<0.0025		0.0014 (J)	<0.0025
3/3/2022		0.0014 (J)					
8/15/2022	0.0007 (J)		0.00045 (J)			0.00063 (J)	<0.0025
8/16/2022		0.00075 (J)		<0.0025	<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	0.00201 (J)					<0.0025
5/19/2016			<0.0025	<0.01	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/13/2016	<0.0025						
9/14/2016		0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016	0.00055 (J)				<0.0025		<0.0025
11/11/2016		0.001 (J)	0.00052 (J)	0.0017 (J)			
1/18/2017	0.00097 (J)						
1/24/2017							<0.0025
1/27/2017			0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017		0.00072 (J)					
2/8/2017						0.0051	
2/23/2017						0.014	
3/14/2017	<0.0025						<0.0025
3/15/2017		0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017						0.013	
4/11/2017						0.016	
4/25/2017	<0.0025						<0.0025
4/26/2017		0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01	
5/17/2017						0.011	
6/7/2017						0.01	
7/11/2017						0.0085	
8/8/2017	<0.0025						
8/9/2017					0.0004 (J)		<0.0025
8/10/2017		<0.0025	0.0011 (J)	0.00049 (J)			
3/28/2018	<0.0025						
3/29/2018			<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018		0.0035					<0.0025
6/14/2018	<0.0025	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/26/2019	0.00017 (J)						
2/27/2019		0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/2/2019	<0.0025						
4/3/2019			0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019		0.0017 (J)					<0.0025
9/18/2019	0.0002 (J)				<0.0025	0.005	<0.0025
9/19/2019		0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.00021 (J)	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020							<0.0025
3/17/2020	0.00065 (J)						
3/18/2020		0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020					<0.0025	0.0039	
9/22/2020	0.00015 (J)						
9/23/2020		0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020			<0.0025		0.00032 (J)	0.0035	
2/2/2021	<0.0025						
2/3/2021			0.00072 (J)	0.00017 (J)			
2/4/2021		0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/10/2021	<0.0025						
3/11/2021		0.00058 (J)			<0.0025	0.0037	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0022 (J)	0.00042 (J)			<0.0025
8/24/2021	0.00017 (J)						
8/25/2021			0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021		0.00044 (J)					<0.0025
3/3/2022	<0.0025	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025
3/4/2022				0.00056 (J)			
8/16/2022	<0.0025		<0.0025				
8/17/2022							<0.0025
8/18/2022				0.00034 (J)	<0.0025		
8/19/2022		0.0014 (J)				0.002 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0069	0.00245 (J)					
7/19/2016	0.012						
7/20/2016		0.0018 (J)					
9/14/2016	0.013	0.0014 (J)					
11/10/2016	0.016	0.0016 (J)					
11/11/2016			<0.0025				
1/20/2017		0.0014 (J)					
1/24/2017	0.015						
2/6/2017			0.00058 (J)				
3/14/2017		0.0023 (J)					
3/15/2017	0.014		0.00045 (J)				
4/11/2017			<0.0025				
4/25/2017	0.014	0.0023 (J)					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.016	0.0011 (J)					
8/10/2017			0.00049 (J)				
3/29/2018	0.0092		<0.0025				
3/30/2018		0.0016 (J)					
6/14/2018	0.0035	0.00055 (J)	<0.0025				
10/4/2018	0.0078	0.00041 (J)	<0.0025				
2/26/2019		0.00086 (J)					
2/27/2019	0.00084 (J)						
2/28/2019			0.00019 (J)				
4/2/2019			<0.0025				
4/4/2019	0.00077 (J)	<0.0025					
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)				
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)				
3/18/2020	0.00016 (J)	0.00052 (J)					
5/4/2020			0.00018 (J)				
9/23/2020	<0.0025	0.0009 (J)	0.00024 (J)				
2/3/2021			0.00025 (J)				
2/4/2021	0.00026 (J)	0.00042 (J)					
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)				
8/25/2021	<0.0025	0.00042 (J)					
8/26/2021			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)	0.00017 (J)
1/11/2022					0.00032 (J)	0.00025 (J)	0.00016 (J)
1/12/2022				0.00037 (J)			
3/3/2022	<0.0025		0.00034 (J)		0.00042 (J)		
3/4/2022		0.00026 (J)		<0.0025		0.00034 (J)	<0.0025
6/6/2022					0.001 (J)		<0.0025
6/7/2022				<0.0025		<0.0025	
8/16/2022		<0.0025			0.00039 (J)		
8/17/2022	<0.0025		<0.0025				<0.0025
8/18/2022				<0.0025			
8/19/2022						<0.0025	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.0025	<0.0025		
7/20/2016			<0.0025	<0.0025		
9/14/2016				<0.0025		
9/15/2016			<0.0025			
11/14/2016			<0.0025			
2/6/2017			<0.0025			
2/9/2017				0.00073 (J)		
3/15/2017			<0.0025	<0.0025		
4/11/2017				<0.0025		
4/26/2017			<0.0025	<0.0025		
8/10/2017			<0.0025	<0.0025		
3/29/2018			0.00066 (J)	<0.0025		
6/14/2018			0.0011 (J)	<0.0025		
10/4/2018			<0.0025	<0.0025		
2/27/2019			0.0019 (J)			
2/28/2019				<0.0025		
4/3/2019			0.0037	<0.0025		
9/19/2019			0.0028	<0.0025		
2/5/2020				<0.0025		
2/7/2020			0.0011			
3/19/2020			0.00092 (J)	<0.0025		
9/22/2020			0.00065 (J)			
9/23/2020				<0.0025		
2/3/2021			0.00014 (J)			
2/4/2021				<0.0025		
3/11/2021			0.00043 (J)			
3/12/2021				<0.0025		
8/26/2021	0.13	0.005	0.0005 (J)	<0.0025		
1/11/2022	0.11	0.0048				
3/3/2022	0.086		0.0003 (J)	<0.0025		
3/4/2022		0.004				
6/6/2022	0.042					
6/7/2022		0.0043				
8/16/2022			0.00075 (J)			
8/17/2022		0.0037		<0.0025		
8/18/2022	0.031					
10/19/2022					0.0016 (J)	0.002 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0525 (U)	0.184 (U)	0.13 (U)				
5/18/2016				0.025 (U)	1.04	0.325 (U)	8
7/19/2016	7.25 (O)	0.27 (U)	0.121 (U)			0.433 (U)	7.69
7/20/2016				0.398 (U)	0.812		
9/13/2016	0.592 (U)	0.194 (U)	0.372 (U)	0.215 (U)	0.958		6.98
11/9/2016	0.221 (U)	0.219 (U)	0.217 (U)				8.78
11/10/2016				0.421	1.13		
1/17/2017	0.295 (U)		0.595				
1/18/2017				0.434 (U)	1.76		10.4
1/19/2017		0.0745 (U)				0.216 (U)	
3/13/2017	-0.13 (U)		-0.147 (U)				
3/14/2017		0.194 (U)		0.167 (U)	0.788	0.119 (U)	0.589 (O)
4/24/2017	0.36 (U)		0.367				
4/25/2017		0.109 (U)		0.224 (U)	1.13	0.105 (U)	8.22
8/8/2017	0.382	0.0842 (U)	0.402	0.127 (U)			7.21
8/9/2017					1.31	0.385 (U)	
3/27/2018	0.475		0.453				
3/28/2018		0.424		0.15 (U)	1.32	0.492	7.52
6/13/2018	-0.0181 (U)	0.401				0.275 (U)	8.77
6/14/2018			0.402	0.258 (U)	0.857		
9/24/2018			0.318				
9/27/2018	0.342						
9/28/2018		0.381					
10/2/2018							8.72
10/3/2018				0.178 (U)	0.943	0.72	
2/25/2019	0.394		0.44				
2/26/2019		0.307 (U)		0.179 (U)	0.65	0.113 (U)	8.93
4/1/2019	0.169 (U)		-0.00216 (U)				
4/2/2019		0.0436 (U)		0.361	0.602	0.255 (U)	7.8
9/16/2019	0.31 (U)					0.318 (U)	8.55
9/17/2019		0.263 (U)	0.165 (U)		0.788		
9/18/2019				0.189 (U)			
2/3/2020	0.283 (U)		0.0879 (U)				
2/4/2020				-0.107 (U)	1.49	0.198 (U)	8.3
2/5/2020		0.327 (U)					
3/16/2020	0.394 (U)		0.289 (U)				
3/17/2020		0.6 (U)		-0.139 (U)	0.964	0.207 (U)	8.88
9/21/2020			0.418 (U)	0.0688 (U)	1.07		
9/22/2020	0.729	0.557 (U)				0.954	7.65
2/2/2021	0.243 (U)	0.354 (U)	0.202 (U)	0.182 (U)	1.05		
2/3/2021						-0.314 (U)	9.99
3/10/2021		0.218 (U)	0.378 (U)	-0.177 (U)	1.47	0.144 (U)	
3/11/2021	0.046 (U)						9.2
8/23/2021			0.632				
8/24/2021	0.598				1.61	0.226 (U)	9.78
8/25/2021		0.645		-0.121 (U)			
2/28/2022					1.3		
3/1/2022	-0.0398 (U)		-0.141 (U)	0.238 (U)		0.428 (U)	9.86
3/3/2022		0.474					
8/15/2022	0.559		0.725			2.38	9.58
8/16/2022		1.18		0.628	2.02		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.268 (U)	0.182 (U)					0.569
5/19/2016			0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016	0.369 (U)						0.29 (U)
7/20/2016		-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/13/2016	0.527 (U)						
9/14/2016		0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016	0.871				1		0.709
11/11/2016		0.542	0.0257 (U)	0.467			
1/18/2017	0.213 (U)						
1/24/2017							0.779
1/27/2017			0.898	0.836	0.668		
2/6/2017		0.104 (U)					
2/8/2017						0.958	
2/23/2017						0.771	
3/14/2017	0.0192 (U)						0.247 (U)
3/15/2017		0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017						1.7	
4/11/2017						0.901	
4/25/2017	0.0872 (U)						0.515
4/26/2017		0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434	
5/17/2017						0.632	
6/7/2017						1.06	
7/11/2017						0.716	
8/8/2017	0.219 (U)						
8/9/2017					0.816		1.7
8/10/2017		0.189 (U)	0.326 (U)	0.912			
3/28/2018	0.315 (U)						
3/29/2018			0.461	0.419	0.51	0.58	
3/30/2018		0.575					0.0985 (U)
6/14/2018	0.41	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018	0.65						0.766
10/4/2018		0.84	1.18	1.29	0.99	0.563	
2/26/2019	0.395						
2/27/2019		0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/2/2019	0.182 (U)						
4/3/2019			0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019		0.233 (U)					0.418
9/18/2019	0.299 (U)				0.392	0.376 (U)	0.484
9/19/2019		0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	-0.0263 (U)	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020							0.125 (U)
3/17/2020	0.258 (U)						
3/18/2020		0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020					0.47	0.376 (U)	
9/22/2020	0.0523 (U)						
9/23/2020		0.442 (U)		0.785			0.448 (U)
9/24/2020			1.2		1.02	0.796	
2/2/2021	0.167 (U)						
2/3/2021			0.718	0.322 (U)			
2/4/2021		0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/10/2021	0.224 (U)						
3/11/2021		0.42 (U)			0.473	0.764	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0729 (U)	0.633			0.591
8/24/2021	0.465 (U)						
8/25/2021			0.401	0.443 (U)	0.913	0.705	
8/26/2021		0.321 (U)					0.678
3/3/2022	0.415	0.587	0.622		0.621	0.956	0.358 (U)
3/4/2022				0.408			
8/16/2022	0.653		0.5				
8/17/2022							0.563
8/18/2022				0.279 (U)	0.719		
8/19/2022		0.497 (U)				0.932	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			0.711 (U)	0.209 (U)		
7/20/2016			1.14	-0.084 (U)		
9/14/2016				0.42 (U)		
9/15/2016			1.26			
11/14/2016			0.749			
2/6/2017			1.05			
2/9/2017				0.393		
3/15/2017			1.32	0.271 (U)		
4/11/2017				0.488 (U)		
4/26/2017			1.07	0.14 (U)		
8/10/2017			1.88	0.379		
3/29/2018			2.31	0.278 (U)		
6/14/2018			1.86	0.157 (U)		
10/4/2018			2.44	0.48		
2/27/2019			2.42			
2/28/2019				0.271 (U)		
4/3/2019			1.55	0.0621 (U)		
9/19/2019			2.06	0.537		
2/5/2020				-0.137 (U)		
2/7/2020			1.66			
3/19/2020			1.21	0.23 (U)		
9/22/2020			1.75			
9/23/2020				0.0587 (U)		
2/3/2021			2			
2/4/2021				0.353 (U)		
3/11/2021			2.38			
3/12/2021				0.831		
8/26/2021	1.63	1.12	2.87	0.681		
1/11/2022	0.749	0.606				
3/3/2022	0.893		3.18	0.431 (U)		
3/4/2022		0.818				
6/6/2022	0.845					
6/7/2022		0.5				
8/16/2022			2.4			
8/17/2022		0.763		0.139 (U)		
8/18/2022	1.03					
10/19/2022					3.77	0.185 (U)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0131 (J)	0.284 (J)	0.0538 (J)				
5/18/2016				0.029 (J)	0.164 (J)	0.014 (J)	0.106 (J)
7/19/2016	<0.1	0.21	<0.2			<0.1	0.11 (J)
7/20/2016				<0.1	0.17 (J)		
9/13/2016	<0.1	0.15 (J)	<0.2	<0.1	0.15 (J)		0.11 (J)
9/14/2016						0.095 (J)	
11/9/2016	<0.1	<0.1	0.085 (J)				0.1 (J)
11/10/2016				<0.1	0.12 (J)		
1/17/2017	<0.1		<0.2				
1/18/2017				<0.1	0.15 (J)		0.11 (J)
1/19/2017		0.087 (J)				<0.1	
3/13/2017	<0.1		<0.2				
3/14/2017		<0.1		<0.1	0.13 (J)	<0.1	<0.2
4/24/2017	<0.1		<0.2				
4/25/2017		<0.1		<0.1	0.12 (J)	<0.1	<0.2
8/8/2017	<0.1	0.087 (J)	<0.2	<0.1			0.099 (J)
8/9/2017					0.14 (J)	<0.1	
10/10/2017	<0.1		0.18 (J)				
10/11/2017		0.09 (J)		<0.1	0.14 (J)	<0.1	0.098 (J)
3/27/2018	<0.1		<0.2				
3/28/2018		0.11 (J)		<0.1	0.12 (J)	<0.1	0.088 (J)
6/13/2018	<0.1	0.085 (J)				<0.1	0.093 (J)
6/14/2018			<0.2	<0.1	0.12 (J)		
9/24/2018			<0.2				
9/27/2018	<0.1						
9/28/2018		0.082 (J)					
10/2/2018							0.13 (J)
10/3/2018				<0.1	0.13 (J)	<0.1	
2/25/2019	<0.1		0.032 (J)				
2/26/2019		0.23		<0.1	0.14 (J)	<0.1	0.074 (J)
4/1/2019	<0.1		0.061 (J)				
4/2/2019		0.21		0.039 (J)	0.14 (J)	<0.1	0.09 (J)
9/16/2019	0.03 (J)					<0.1	0.1 (J)
9/17/2019		0.079 (J)	0.061 (J)		0.14 (J)		
9/18/2019				0.033 (J)			
2/3/2020	0.032 (J)		0.061 (J)				
2/4/2020				0.031 (J)	0.13	<0.1	0.13
2/5/2020		0.12					
3/16/2020	0.042 (J)		0.052 (J)				
3/17/2020		<0.1		0.04 (J)	0.11	<0.1	0.037 (J)
9/21/2020			0.037 (J)	<0.1	0.091 (J)		
9/22/2020	<0.1	0.1				<0.1	0.068 (J)
2/2/2021	0.028 (J)	0.071 (J)	0.065 (J)	0.035 (J)	0.15		
2/3/2021						<0.1	0.088 (J)
3/10/2021		0.046 (J)	0.045 (J)	<0.1	0.12	<0.1	
3/11/2021	<0.1						0.092 (J)
8/23/2021			0.097 (J)				
8/24/2021	0.062 (J)				0.17	0.073 (J)	0.16
8/25/2021		0.13		0.077 (J)			
2/28/2022					0.083 (J)		
3/1/2022	<0.1		0.058 (J)	<0.1		<0.1	0.063 (J)
3/3/2022		0.078 (J)					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
8/15/2022	<0.1		0.057 (J)			<0.1	0.093 (J)
8/16/2022		0.06 (J)		<0.1	0.12		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.018 (J)	0.206					0.779
5/19/2016			0.039 (J)	0.12 (J)	0.384		
7/19/2016	<0.1						0.97
7/20/2016		0.23	<0.1	0.11 (J)	0.34		
9/13/2016	<0.1						
9/14/2016		0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016	<0.1				0.26		0.88
11/11/2016		0.14 (J)	<0.1	<0.2			
1/18/2017	<0.1						
1/24/2017							0.92
1/27/2017			<0.1	<0.2	0.28		
2/6/2017		0.15 (J)					
2/8/2017						<0.1	
2/23/2017						<0.1	
3/14/2017	<0.1						0.77
3/15/2017		0.16 (J)	<0.1	<0.2	0.3		
3/17/2017						<0.1	
4/11/2017						<0.1	
4/25/2017	<0.1						0.95
4/26/2017		0.17 (J)	<0.1	<0.2	0.33	<0.1	
5/17/2017						<0.1	
6/7/2017						<0.1	
7/11/2017						<0.1	
8/8/2017	<0.1						
8/9/2017					0.32		0.91
8/10/2017		0.2	<0.1	0.11 (J)			
10/11/2017	<0.1					<0.1	0.88
10/12/2017		0.14 (J)	<0.1	0.091 (J)	0.28		
3/28/2018	<0.1						
3/29/2018			<0.1	0.089 (J)	0.27	<0.1	
3/30/2018		0.13 (J)					0.79
6/14/2018	<0.1	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018	<0.1						0.79
10/4/2018		0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/26/2019	<0.1						
2/27/2019		0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/2/2019	<0.1						
4/3/2019			0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019		0.13 (J)					0.78
9/18/2019	0.027 (J)				0.22	0.035 (J)	0.81
9/19/2019		0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.026 (J)	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020							0.79
3/17/2020	0.044 (J)						
3/18/2020		0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020					0.15	<0.1	
9/22/2020	<0.1						
9/23/2020		0.09 (J)		0.064 (J)			0.63
9/24/2020			0.18		<0.1	0.028 (J)	
2/2/2021	<0.1						
2/3/2021			0.027 (J)	0.082 (J)			
2/4/2021		0.12			0.16	0.033 (J)	0.69

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/10/2021	<0.1						
3/11/2021		0.15			0.18	0.04 (J)	
3/12/2021			0.044 (J)	0.096 (J)			0.88
8/24/2021	0.054 (J)						
8/25/2021			0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021		0.16					0.77
3/3/2022	0.038 (J)	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88
3/4/2022				0.068 (J)			
8/16/2022	<0.1		<0.1				
8/17/2022							0.68
8/18/2022				0.073 (J)	0.14		
8/19/2022		0.1				<0.1	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.1 (J)	0.121 (J)					
7/19/2016	0.14 (J)						
7/20/2016		0.16 (J)					
9/14/2016	0.18 (J)	0.19 (J)					
11/10/2016	0.11 (J)	0.15 (J)					
11/11/2016			0.32				
1/20/2017		0.18 (J)					
1/24/2017	0.15 (J)						
2/6/2017			0.45				
3/14/2017		0.11 (J)					
3/15/2017	0.1 (J)		0.37				
4/11/2017			0.37				
4/25/2017	0.13 (J)	0.13 (J)					
4/26/2017			0.4				
6/7/2017			0.35				
7/11/2017			0.39				
8/9/2017	0.18 (J)	0.19 (J)					
8/10/2017			0.42				
10/11/2017	<2	0.14 (J)					
10/12/2017			0.36				
3/29/2018	0.13 (J)		0.34				
3/30/2018		0.095 (J)					
6/14/2018	<2	0.11 (J)	0.35				
10/4/2018	0.85 (J)	0.11 (J)	0.35				
2/26/2019		0.068 (J)					
2/27/2019	0.47						
2/28/2019			0.28				
4/2/2019			0.33				
4/4/2019	0.08 (J)	0.087 (J)					
9/18/2019	0.058 (J)	0.066 (J)	0.32				
2/7/2020	0.072 (J)	0.079 (J)	0.35				
3/18/2020	0.084 (J)	<0.1					
5/4/2020			0.36				
9/23/2020	0.049 (J)	0.05 (J)	0.25				
2/3/2021			0.3				
2/4/2021	0.052 (J)	0.064 (J)					
3/8/2021				1.8			
3/9/2021					1.7	1.1	0.092 (J)
3/11/2021	0.061 (J)	0.05 (J)	0.31				
4/7/2021					1.6		0.093 (J)
4/8/2021				1.7		1.4	
8/25/2021	0.099 (J)	0.093 (J)					
8/26/2021			0.38	2	2	0.51	0.081 (J)
1/11/2022					1.9	0.45	0.045 (J)
1/12/2022				1.8			
3/3/2022	0.067 (J)		0.4		1.8		
3/4/2022		0.06 (J)		2		0.42	0.045 (J)
6/6/2022					1.9		0.028 (J)
6/7/2022				2.5		0.37	
8/16/2022		0.06 (J)			1.8		
8/17/2022	0.062 (J)		0.28				0.043 (J)
8/18/2022				2			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
8/19/2022						0.31	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			0.304	1.58		
7/20/2016			0.27	2		
9/14/2016				1.8		
9/15/2016			0.24			
11/14/2016			0.2			
2/6/2017			0.27			
2/9/2017				1.3		
3/15/2017			0.25	1.3		
4/11/2017				1.4		
4/26/2017			0.31	1.5		
8/10/2017			0.37	1.6		
10/12/2017			0.35	1.5		
3/29/2018			0.36	1.4		
6/14/2018			0.56	1.4		
10/4/2018			0.27	1.4		
2/27/2019			0.054 (J)			
2/28/2019				1.4		
4/3/2019			0.5	1.3		
9/19/2019			0.42	1.3		
2/5/2020				1.3		
2/7/2020			0.25			
3/19/2020			0.057 (J)	1		
9/22/2020			0.14			
9/23/2020				0.82		
2/3/2021			0.15			
2/4/2021				0.91		
3/8/2021		<0.1				
3/9/2021	1					
3/11/2021			0.16			
3/12/2021				0.98		
4/7/2021	1.1					
4/8/2021		0.028 (J)				
8/26/2021	1.2	0.047 (J)	0.21	1		
1/11/2022	1	0.028 (J)				
3/3/2022	0.71		0.19	1		
3/4/2022		0.038 (J)				
6/6/2022	0.43					
6/7/2022		<0.1				
8/16/2022			0.21			
8/17/2022		<0.1		0.9		
8/18/2022	0.24					
10/19/2022				1.8		0.52

Time Series

Constituent: Lead (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/14/2016						<0.001	
11/9/2016	<0.001	<0.001	<0.001				<0.001
11/10/2016				<0.001	<0.001		
1/17/2017	<0.001		<0.001				
1/18/2017				<0.001	<0.001		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
2/25/2019	<0.001		0.00019 (J)				
2/26/2019		<0.001		<0.001	0.00046 (J)	0.00028 (J)	0.00037 (J)
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	<0.001
9/17/2019		<0.001	<0.001		<0.001		
9/18/2019				<0.001			
2/3/2020	<0.001		0.00013 (J)				
2/4/2020				0.00013 (J)	0.00019 (J)	0.00024 (J)	<0.001
2/5/2020		<0.001					
3/16/2020	0.00021 (J)		0.00018 (J)				
3/17/2020		<0.001		0.00019 (J)	0.00016 (J)	<0.001	0.00017 (J)
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	0.00015 (J)	<0.001	0.00015 (J)	<0.001	<0.001		
2/3/2021						0.00019 (J)	<0.001
3/10/2021		<0.001	0.00019 (J)	<0.001	<0.001	<0.001	
3/11/2021	<0.001						<0.001
8/23/2021			0.00023 (J)				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	0.00019 (J)
8/16/2022		<0.001		<0.001	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.0013					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.0013	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.0013	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016	<0.001				0.00047 (J)		<0.001
11/11/2016		<0.0013	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
2/6/2017		<0.0013					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						<0.001
3/15/2017		<0.0013	<0.001	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.0013	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.0013	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	<0.001	
3/30/2018		<0.0013					<0.001
2/26/2019	<0.001						
2/27/2019		0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019		<0.0013					<0.001
9/18/2019	<0.001				0.00045 (J)	<0.001	<0.001
9/19/2019		0.00041 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		0.00021 (J)	<0.001	<0.001			<0.001
3/19/2020					0.0006 (J)	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		0.00013 (J)		<0.001			<0.001
9/24/2020			0.00037 (J)		<0.001	0.00018 (J)	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)
3/10/2021	<0.001						
3/11/2021		0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021			0.00038 (J)	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/26/2021		0.00026 (J)					<0.001
3/3/2022	<0.001	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001
3/4/2022				0.00033 (J)			
8/16/2022	<0.001		<0.001				
8/17/2022							<0.001
8/18/2022				<0.001	0.0011		
8/19/2022		0.0003 (J)				0.00036 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	<0.001						
7/20/2016		<0.001					
9/14/2016	<0.001	<0.001					
11/10/2016	<0.001	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	<0.001						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	<0.001		<0.001				
4/11/2017			<0.001				
4/25/2017	<0.001	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	<0.001	<0.001					
8/10/2017			<0.001				
3/29/2018	<0.001		<0.001				
3/30/2018		<0.001					
2/26/2019		0.00033 (J)					
2/27/2019	0.00014 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	0.0002 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			<0.001				
2/4/2021	0.00013 (J)	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	0.00022 (J)	<0.001
1/11/2022					<0.001	0.00023 (J)	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		0.0003 (J)		<0.001		
3/4/2022		<0.001		<0.001		0.00036 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	
8/16/2022		<0.001			<0.001		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						0.00037 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.001	<0.001		
7/20/2016			<0.001	<0.001		
9/14/2016				<0.001		
9/15/2016			<0.001			
11/14/2016			<0.001			
2/6/2017			<0.001			
2/9/2017				<0.001		
3/15/2017			<0.001	<0.001		
4/11/2017				<0.001		
4/26/2017			<0.001	<0.001		
8/10/2017			<0.001	<0.001		
3/29/2018			<0.001	<0.001		
2/27/2019			0.00017 (J)			
2/28/2019				0.00014 (J)		
4/3/2019			<0.001	<0.001		
9/19/2019			<0.001	<0.001		
2/5/2020				<0.001		
2/7/2020			<0.001			
3/19/2020			0.00016 (J)	<0.001		
9/22/2020			0.00013 (J)			
9/23/2020				<0.001		
2/3/2021			0.00013 (J)			
2/4/2021				<0.001		
3/11/2021			<0.001			
3/12/2021				<0.001		
8/26/2021	0.0012	<0.001	0.00014 (J)	<0.001		
1/11/2022	0.00082 (J)	<0.001				
3/3/2022	0.00076 (J)		0.00052 (J)	<0.001		
3/4/2022		<0.001				
6/6/2022	0.00047 (J)					
6/7/2022		<0.001				
8/16/2022			0.00041 (J)			
8/17/2022		<0.001		<0.001		
8/18/2022	0.00032 (J)					
10/19/2022					<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.05 (O)	<0.05 (O)	<0.05 (O)				
5/18/2016				<0.05 (O)	<0.05 (O)	<0.05 (O)	<0.05 (O)
7/19/2016	<0.005	<0.005	0.005			<0.005	0.0043 (J)
7/20/2016				<0.005	0.0041 (J)		
9/13/2016	<0.005	<0.005	0.0075	<0.005	0.0042 (J)		0.0045 (J)
9/14/2016						<0.005	
11/9/2016	0.0032 (J)	<0.005	0.0078				0.0036 (J)
11/10/2016				<0.005	0.0048 (J)		
1/17/2017	<0.005		0.009				
1/18/2017				<0.005	0.0033 (J)		0.0046 (J)
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		0.0069				
3/14/2017		<0.005		<0.005	0.0033 (J)	<0.005	0.0038 (J)
4/24/2017	<0.005		0.0049 (J)				
4/25/2017		<0.005		<0.005	0.0037 (J)	<0.005	<0.005
8/8/2017	0.0032 (J)	<0.005	0.0075	<0.005			0.0043 (J)
8/9/2017					0.0042 (J)	<0.005	
3/27/2018	0.0045 (J)		0.0081				
3/28/2018		0.0012 (J)		0.0013 (J)	0.0056	<0.005	0.0064
6/13/2018	0.0033 (J)	<0.005				<0.005	0.0041 (J)
6/14/2018			0.0072	0.0012 (J)	0.0045 (J)		
9/24/2018			0.0082				
9/27/2018	0.0042 (J)						
9/28/2018		0.0013 (J)					
10/2/2018							0.0038 (J)
10/3/2018				0.0012 (J)	0.005	<0.005	
2/25/2019	0.0049 (J)		0.0072				
2/26/2019		<0.005		<0.005	0.0069	<0.005	0.0068
4/1/2019	0.0044 (J)		0.0055				
4/2/2019		0.0012 (J)		<0.005	0.0036 (J)	0.0016 (J)	0.0052
9/16/2019	0.004 (J)					0.028 (O)	0.032 (O)
9/17/2019		<0.005	0.0083		0.0049 (J)		
9/18/2019				<0.005			
2/3/2020	<0.005		0.0085				
2/4/2020				<0.005	0.0055	<0.005	0.0053
2/5/2020		<0.005					
3/16/2020	0.0053		0.0083				
3/17/2020		<0.005		<0.005	0.0059	<0.005	0.0055
9/21/2020			0.0075	<0.005	0.005		
9/22/2020	0.0036 (J)	<0.005				<0.005	0.0049 (J)
2/2/2021	<0.005	<0.005	0.0065	<0.005	0.0039 (J)		
2/3/2021						<0.005	0.0047 (J)
3/10/2021		<0.005	0.0075	<0.005	0.0049 (J)	<0.005	
3/11/2021	0.0039 (J)						0.005
8/23/2021			0.0066				
8/24/2021	<0.005				0.0036 (J)	<0.005	0.0041 (J)
8/25/2021		<0.005		<0.005			
2/28/2022					0.005		
3/1/2022	0.0029 (J)		0.0085	<0.005		<0.005	0.006
3/3/2022		<0.005					
8/15/2022	0.0032 (J)		0.007			<0.005	0.0047 (J)
8/16/2022		<0.005		<0.005	0.0043 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.05 (O)	0.032					<0.005
5/19/2016			<0.005	<0.05	<0.005		
7/19/2016	<0.005						0.0036 (J)
7/20/2016		0.021	<0.005	0.0057	<0.005		
9/13/2016	<0.005						
9/14/2016		0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016	<0.005				0.0038 (J)		0.0064
11/11/2016		0.017	<0.005	0.007			
1/18/2017	<0.005						
1/24/2017							0.0075
1/27/2017			<0.005	0.0074	<0.005		
2/6/2017		0.016					
2/8/2017						0.0039 (J)	
2/23/2017						<0.005	
3/14/2017	<0.005						0.0057
3/15/2017		0.014	<0.005	0.0077	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						0.0059
4/26/2017		0.011	<0.005	0.0011	<0.005	<0.005	
5/17/2017						0.0033 (J)	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		0.0068
8/10/2017		0.011	<0.005	0.0064			
3/28/2018	0.0014 (J)						
3/29/2018			0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018		0.016					0.0077
6/14/2018	<0.005	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018	<0.005						0.006
10/4/2018		0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/26/2019	<0.005						
2/27/2019		0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/2/2019	<0.005						
4/3/2019			<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019		0.0059					0.0054
9/18/2019	<0.005				<0.005	<0.005	0.0054
9/19/2019		0.0075	<0.005	0.0067			
2/5/2020	<0.005	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020							0.0068
3/17/2020	<0.005						
3/18/2020		0.0071	<0.005	0.0081			0.0086
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		0.0054		0.007			0.0071
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	0.0075			
2/4/2021		0.0049 (J)			<0.005	<0.005	0.0086
3/10/2021	<0.005						
3/11/2021		0.0051			0.0037 (J)	0.0035 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	0.0089			0.0096
8/24/2021	<0.005						
8/25/2021			<0.005	0.0061	<0.005	<0.005	
8/26/2021		0.0044 (J)					0.0059
3/3/2022	<0.005	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068
3/4/2022				0.0061			
8/16/2022	<0.005		0.00092 (J)				
8/17/2022							0.0073
8/18/2022				0.0063	0.0024 (J)		
8/19/2022		0.0049 (J)				0.0021 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.05	<0.05					
7/19/2016	0.0091						
7/20/2016		0.0042 (J)					
9/14/2016	0.012	0.0058					
11/10/2016	0.013	0.0066					
11/11/2016			0.045				
1/20/2017		0.0044 (J)					
1/24/2017	0.011						
2/6/2017			0.05				
3/14/2017		0.0048 (J)					
3/15/2017	0.01		0.052				
4/11/2017			0.048				
4/25/2017	0.0081	0.0049 (J)					
4/26/2017			0.044				
6/7/2017			0.047				
7/11/2017			0.045				
8/9/2017	0.013	0.0067					
8/10/2017			0.056				
3/29/2018	0.015		0.072				
3/30/2018		0.0067					
6/14/2018	0.009	0.0046 (J)	0.048				
10/4/2018	0.012	0.005	0.062				
2/26/2019		0.0063					
2/27/2019	0.0075						
2/28/2019			0.045				
4/2/2019			0.052				
4/4/2019	0.0077	0.0042 (J)					
9/18/2019	0.0056	0.0047 (J)	0.052				
2/7/2020	0.0053	0.0045 (J)	0.044				
3/18/2020	0.0057	0.0054					
5/4/2020			0.049				
9/23/2020	0.0059	0.0056	0.056				
2/3/2021			0.06				
2/4/2021	0.0051	0.0047 (J)					
3/8/2021				0.11			
3/9/2021					0.022	0.011	<0.005
3/11/2021	0.005	0.0049 (J)	0.051				
4/7/2021					0.031		<0.005
4/8/2021				0.11		0.0081	
8/25/2021	0.0046 (J)	0.0048 (J)					
8/26/2021			0.057	0.11	0.032	0.011	<0.005
1/11/2022					0.038	0.011	<0.005
1/12/2022				0.15			
3/3/2022	0.0041 (J)		0.057		0.044		
3/4/2022		0.0042 (J)		0.14		0.011	0.0015 (J)
6/6/2022					0.051		0.002 (J)
6/7/2022				0.12		0.0093	
8/16/2022		0.0053			0.059		
8/17/2022	0.0042 (J)		0.056				0.0017 (J)
8/18/2022				0.11			
8/19/2022						0.01	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			0.0215	0.0335		
7/20/2016			0.026	0.024		
9/14/2016				0.039		
9/15/2016			0.057			
11/14/2016			0.017			
2/6/2017			0.012			
2/9/2017				0.04		
3/15/2017			0.014	0.035		
4/11/2017				0.034		
4/26/2017			0.0091	0.029		
8/10/2017			0.013	0.038		
3/29/2018			0.018	0.048		
6/14/2018			0.015	0.034		
10/4/2018			0.013	0.039		
2/27/2019			0.014			
2/28/2019				0.037		
4/3/2019			0.015	0.035		
9/19/2019			0.014	0.036		
2/5/2020				0.034		
2/7/2020			0.014			
3/19/2020			0.015	0.039		
9/22/2020			0.013			
9/23/2020				0.033		
2/3/2021			0.014			
2/4/2021				0.035		
3/8/2021		0.0046 (J)				
3/9/2021	0.0084					
3/11/2021			0.013			
3/12/2021				0.034		
4/7/2021	0.0077					
4/8/2021		0.0044 (J)				
8/26/2021	0.0076	0.0044 (J)	0.013	0.03		
1/11/2022	0.0091	0.0043 (J)				
3/3/2022	0.0066		0.014	0.03		
3/4/2022		0.0035 (J)				
6/6/2022	0.0044 (J)					
6/7/2022		0.004 (J)				
8/16/2022			0.014			
8/17/2022		0.0036 (J)		0.028		
8/18/2022	0.0036 (J)					
10/19/2022					0.16	0.0072

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0002	<0.0002	<0.0002				
5/18/2016				<0.0002	<0.0002	<0.0002	<0.0002
7/19/2016	<0.0002	8.2E-05 (J)	8.1E-05 (J)			8.5E-05 (J)	8.4E-05 (J)
7/20/2016				7.7E-05 (J)	8.1E-05 (J)		
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/14/2016						<0.0002	
11/9/2016	<0.0002	<0.0002	<0.0002				<0.0002
11/10/2016				0.00015 (J)	0.00016 (J)		
1/17/2017	<0.0002		<0.0002				
1/18/2017				<0.0002	<0.0002		<0.0002
1/19/2017		<0.0002				<0.0002	
3/13/2017	<0.0002		<0.0002				
3/14/2017		7.1E-05 (J)		<0.0002	<0.0002	<0.0002	<0.0002
4/24/2017	<0.0002		<0.0002				
4/25/2017		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/8/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
8/9/2017					<0.0002	<0.0002	
3/27/2018	<0.0002		<0.0002				
3/28/2018		<0.0002		<0.0002	<0.0002	8.9E-05 (J)	<0.0002
6/13/2018	<0.0002	<0.0002				<0.0002	<0.0002
6/14/2018			<0.0002	<0.0002	<0.0002		
9/24/2018			<0.0002				
9/27/2018	<0.0002						
9/28/2018		<0.0002					
10/2/2018							<0.0002
10/3/2018				<0.0002	<0.0002	<0.0002	
2/25/2019	<0.0002		<0.0002				
2/26/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/3/2020	<0.0002		<0.0002				
2/4/2020				0.00016 (J)	0.00011 (J)	<0.0002	<0.0002
2/5/2020		<0.0002					
3/16/2020	<0.0002		<0.0002				
3/17/2020		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/21/2020			<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002				<0.0002	<0.0002
2/2/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/3/2021						<0.0002	<0.0002
2/28/2022					<0.0002		
3/1/2022	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002
3/3/2022		<0.0002					
8/15/2022	<0.0002		<0.0002			<0.0002	<0.0002
8/16/2022		<0.0002		<0.0002	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002	<0.0002					<0.0002
5/19/2016			<0.0002	<0.0002	<0.0002		
7/19/2016	7.2E-05 (J)						9.3E-05 (J)
7/20/2016		8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)		
9/13/2016	<0.0002						
9/14/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
11/10/2016	8.7E-05 (J)				8.3E-05 (J)		8.5E-05 (J)
11/11/2016		8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
1/18/2017	<0.0002						
1/24/2017							<0.0002
1/27/2017			<0.0002	<0.0002	<0.0002		
2/6/2017		8.3E-05 (J)					
2/8/2017						<0.0002	
2/23/2017						<0.0002	
3/14/2017	<0.0002						7.1E-05 (J)
3/15/2017		0.00013 (J)	<0.0002	0.00018 (J)	<0.0002		
3/17/2017						0.00013 (J)	
4/11/2017						<0.0002	
4/25/2017	<0.0002						<0.0002
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/17/2017						<0.0002	
6/7/2017						<0.0002	
7/11/2017						<0.0002	
8/8/2017	<0.0002						
8/9/2017					<0.0002		<0.0002
8/10/2017		<0.0002	<0.0002	<0.0002			
3/28/2018	<0.0002						
3/29/2018			<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/30/2018		<0.0002					8.6E-05 (J)
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018	<0.0002						<0.0002
10/4/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/26/2019	<0.0002						
2/27/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/7/2020							<0.0002
3/17/2020	<0.0002						
3/18/2020		<0.0002	<0.0002	<0.0002			<0.0002
3/19/2020					<0.0002	<0.0002	
9/22/2020	<0.0002						
9/23/2020		<0.0002		<0.0002			<0.0002
9/24/2020			<0.0002		<0.0002	<0.0002	
2/2/2021	<0.0002						
2/3/2021			<0.0002	<0.0002			
2/4/2021		<0.0002			<0.0002	<0.0002	<0.0002
3/3/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/4/2022				<0.0002			
8/16/2022	<0.0002		<0.0002				
8/17/2022							<0.0002
8/18/2022				<0.0002	<0.0002		
8/19/2022		<0.0002				<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0002	<0.0002					
7/19/2016	<0.0002						
7/20/2016		7.4E-05 (J)					
9/14/2016	<0.0002	<0.0002					
11/10/2016	0.00012 (J)	<0.0002					
11/11/2016			7.6E-05 (J)				
1/20/2017		<0.0002					
1/24/2017	7E-05 (J)						
2/6/2017			0.00012 (J)				
3/14/2017		<0.0002					
3/15/2017	<0.0002		<0.0002				
4/11/2017			<0.0002				
4/25/2017	0.00019 (J)	<0.0002					
4/26/2017			<0.0002				
6/7/2017			<0.0002				
7/11/2017			<0.0002				
8/9/2017	<0.0002	<0.0002					
8/10/2017			<0.0002				
3/29/2018	<0.0002		<0.0002				
3/30/2018		<0.0002					
6/14/2018	<0.0002	<0.0002	<0.0002				
10/4/2018	<0.0002	<0.0002	<0.0002				
2/26/2019		<0.0002					
2/27/2019	<0.0002						
2/28/2019			<0.0002				
2/7/2020	<0.0002	<0.0002	<0.0002				
3/18/2020	<0.0002	<0.0002					
5/4/2020			<0.0002				
9/23/2020	<0.0002	<0.0002	<0.0002				
2/3/2021			<0.0002				
2/4/2021	<0.0002	<0.0002					
8/26/2021				0.00033	0.0002	0.00018 (J)	0.00022
1/11/2022					<0.0002	<0.0002	<0.0002
1/12/2022				<0.0002			
3/3/2022	<0.0002		<0.0002		<0.0002		
3/4/2022		<0.0002		<0.0002		<0.0002	<0.0002
6/6/2022					<0.0002		<0.0002
6/7/2022				<0.0002		<0.0002	
8/16/2022		<0.0002			<0.0002		
8/17/2022	<0.0002		<0.0002				<0.0002
8/18/2022				<0.0002			
8/19/2022						<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.0002	<0.0002		
7/20/2016			<0.0002	<0.0002		
9/14/2016				<0.0002		
9/15/2016			0.00011 (J)			
11/14/2016			<0.0002			
2/6/2017			7.8E-05 (J)			
2/9/2017				<0.0002		
3/15/2017			0.00013 (J)	0.00013 (J)		
4/11/2017				<0.0002		
4/26/2017			<0.0002	<0.0002		
8/10/2017			<0.0002	<0.0002		
3/29/2018			<0.0002	<0.0002		
6/14/2018			<0.0002	<0.0002		
10/4/2018			<0.0002	<0.0002		
2/27/2019			<0.0002			
2/28/2019				<0.0002		
2/5/2020				<0.0002		
2/7/2020			<0.0002			
3/19/2020			<0.0002	<0.0002		
9/22/2020			<0.0002			
9/23/2020				<0.0002		
2/3/2021			<0.0002			
2/4/2021				<0.0002		
8/26/2021	0.00026	0.0019				
1/11/2022	<0.0002	<0.0002				
3/3/2022	<0.0002		<0.0002	<0.0002		
3/4/2022		<0.0002				
6/6/2022	<0.0002					
6/7/2022		<0.0002				
8/16/2022			<0.0002			
8/17/2022		<0.0002		<0.0002		
8/18/2022	<0.0002					
10/19/2022					<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.015	0.00367 (J)	<0.015				
5/18/2016				<0.015	<0.015	<0.015	<0.015
7/19/2016	<0.015	0.002 (J)	<0.015			<0.015	<0.015
7/20/2016				<0.015	<0.015		
9/13/2016	<0.015	0.0014 (J)	<0.015	<0.015	<0.015		<0.015
9/14/2016						0.016 (O)	
11/9/2016	<0.015	<0.015	<0.015				<0.015
11/10/2016				<0.015	<0.015		
1/17/2017	<0.015		<0.015				
1/18/2017				<0.015	<0.015		<0.015
1/19/2017		<0.015				<0.015	
3/13/2017	<0.015		<0.015				
3/14/2017		0.0072 (J)		0.00087 (J)	<0.015	<0.015	<0.015
4/24/2017	<0.015		<0.015				
4/25/2017		0.0036 (J)		0.00098 (J)	<0.015	<0.015	<0.015
8/8/2017	0.0017 (J)	<0.015	<0.015	<0.015			<0.015
8/9/2017					<0.015	<0.015	
3/27/2018	<0.015		<0.015				
3/28/2018		0.00089 (J)		<0.015	<0.015	<0.015	<0.015
6/13/2018	<0.015	<0.015				<0.015	<0.015
6/14/2018			<0.015	<0.015	<0.015		
9/24/2018			<0.015				
9/27/2018	<0.015						
9/28/2018		<0.015					
10/2/2018							<0.015
10/3/2018				<0.015	<0.015	<0.015	
2/25/2019	<0.015		<0.015				
2/26/2019		0.0019 (J)		<0.015	<0.015	<0.015	<0.015
4/1/2019	<0.015		<0.015				
4/2/2019		<0.015		<0.015	<0.015	<0.015	<0.015
9/16/2019	<0.015					0.001 (J)	0.001 (J)
9/17/2019		<0.015	<0.015		<0.015		
9/18/2019				<0.015			
2/3/2020	<0.015		<0.015				
2/4/2020				<0.015	<0.015	<0.015	<0.015
2/5/2020		<0.015					
3/16/2020	<0.015		<0.015				
3/17/2020		<0.015		<0.015	<0.015	<0.015	<0.015
9/21/2020			<0.015	<0.015	<0.015		
9/22/2020	<0.015	0.00097 (J)				0.0025 (J)	<0.015
2/2/2021	<0.015	<0.015	<0.015	<0.015	<0.015		
2/3/2021						<0.015	<0.015
3/10/2021		<0.015	<0.015	<0.015	<0.015	<0.015	
3/11/2021	<0.015						<0.015
8/23/2021			<0.015				
8/24/2021	<0.015				<0.015	<0.015	<0.015
8/25/2021		<0.015		<0.015			
2/28/2022					<0.015		
3/1/2022	<0.015		<0.015	<0.015		<0.015	<0.015
3/3/2022		<0.015					
8/15/2022	<0.015		<0.015			<0.015	<0.015
8/16/2022		<0.015		<0.015	<0.015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015	<0.015					0.0153
5/19/2016			<0.015	<0.015	0.00491 (J)		
7/19/2016	<0.015						0.0093 (J)
7/20/2016		<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/13/2016	<0.015						
9/14/2016		0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016	<0.015				0.0016 (J)		0.0065 (J)
11/11/2016		<0.015	<0.015	<0.015			
1/18/2017	0.001 (J)						
1/24/2017							0.0049 (J)
1/27/2017			<0.015	<0.015	0.0023 (J)		
2/6/2017		<0.015					
2/8/2017						<0.015	
2/23/2017						<0.015	
3/14/2017	0.0014 (J)						0.0034 (J)
3/15/2017		<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017						<0.015	
4/11/2017						<0.015	
4/25/2017	<0.015						0.004 (J)
4/26/2017		<0.015	<0.015	<0.015	0.0019 (J)	<0.015	
5/17/2017						<0.015	
6/7/2017						0.001 (J)	
7/11/2017						<0.015	
8/8/2017	<0.015						
8/9/2017					0.0028 (J)		0.0042 (J)
8/10/2017		0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/28/2018	<0.015						
3/29/2018			<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018		<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018	<0.015						0.0041 (J)
10/4/2018		<0.015	<0.015	<0.015	<0.015	<0.015	
2/26/2019	<0.015						
2/27/2019		<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/2/2019	<0.015						
4/3/2019			<0.015	<0.015	<0.015	<0.015	
4/4/2019		<0.015					0.0039 (J)
9/18/2019	<0.015				0.0021 (J)	<0.015	0.0052
9/19/2019		<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020							0.0024 (J)
3/17/2020	<0.015						
3/18/2020		<0.015	<0.015	<0.015			0.002 (J)
3/19/2020					0.0018 (J)	<0.015	
9/22/2020	<0.015						
9/23/2020		<0.015		<0.015			0.0031 (J)
9/24/2020			0.0017 (J)		<0.015	<0.015	
2/2/2021	<0.015						
2/3/2021			<0.015	<0.015			
2/4/2021		<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/10/2021	<0.015						
3/11/2021		<0.015			0.0013 (J)	<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.015	0.00062 (J)			0.0019 (J)
8/24/2021	<0.015						
8/25/2021			<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021		<0.015					0.0029 (J)
3/3/2022	<0.015	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)
3/4/2022				<0.015			
8/16/2022	<0.015		<0.015				
8/17/2022							0.0025 (J)
8/18/2022				<0.015	0.00087 (J)		
8/19/2022		<0.015				<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.015	0.00526 (J)					
7/19/2016	<0.015						
7/20/2016		0.0066 (J)					
9/14/2016	<0.015	0.0081 (J)					
11/10/2016	<0.015	0.0076 (J)					
11/11/2016			<0.015				
1/20/2017		0.0094 (J)					
1/24/2017	<0.015						
2/6/2017			0.001 (J)				
3/14/2017		0.0044 (J)					
3/15/2017	<0.015		<0.015				
4/11/2017			<0.015				
4/25/2017	<0.015	0.0074 (J)					
4/26/2017			<0.015				
6/7/2017			0.0015 (J)				
7/11/2017			<0.015				
8/9/2017	<0.015	0.0066 (J)					
8/10/2017			0.0016 (J)				
3/29/2018	<0.015		0.0012 (J)				
3/30/2018		0.0024 (J)					
6/14/2018	<0.015	0.0026 (J)	0.0014 (J)				
10/4/2018	<0.015	0.00085 (J)	<0.015				
2/26/2019		0.0032 (J)					
2/27/2019	<0.015						
2/28/2019			0.0013 (J)				
4/2/2019			<0.015				
4/4/2019	<0.015	0.002 (J)					
9/18/2019	<0.015	0.0026 (J)	0.0011 (J)				
2/7/2020	<0.015	0.0025 (J)	0.0014 (J)				
3/18/2020	<0.015	0.0024 (J)					
5/4/2020			0.0013 (J)				
9/23/2020	<0.015	0.0027 (J)	0.0013 (J)				
2/3/2021			0.0013 (J)				
2/4/2021	<0.015	0.0025 (J)					
3/11/2021	<0.015	0.0022 (J)	0.0012 (J)				
8/25/2021	<0.015	0.0022 (J)					
8/26/2021			0.0011 (J)	0.00079 (J)	0.044	<0.015	<0.015
1/11/2022					0.037	<0.015	<0.015
1/12/2022				0.00062 (J)			
3/3/2022	<0.015		0.0013 (J)		0.036		
3/4/2022		0.0021 (J)		<0.015		0.00084 (J)	<0.015
6/6/2022					0.032		<0.015
6/7/2022				<0.015		<0.015	
8/16/2022		0.0024 (J)			0.042		
8/17/2022	<0.015		0.001 (J)				<0.015
8/18/2022				<0.015			
8/19/2022						<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.015	0.00762 (J)		
7/20/2016			<0.015	0.0084 (J)		
9/14/2016				0.0071 (J)		
9/15/2016			<0.015			
11/14/2016			<0.015			
2/6/2017			<0.015			
2/9/2017				0.018		
3/15/2017			<0.015	0.0057 (J)		
4/11/2017				0.0047 (J)		
4/26/2017			<0.015	0.004 (J)		
8/10/2017			<0.015	0.0046 (J)		
3/29/2018			<0.015	0.0048 (J)		
6/14/2018			<0.015	0.0046 (J)		
10/4/2018			<0.015	0.003 (J)		
2/27/2019			<0.015			
2/28/2019				0.0053		
4/3/2019			<0.015	0.0026 (J)		
9/19/2019			<0.015	0.0048 (J)		
2/5/2020				0.0044 (J)		
2/7/2020			<0.015			
3/19/2020			<0.015	0.0042 (J)		
9/22/2020			<0.015			
9/23/2020				0.0027 (J)		
2/3/2021			<0.015			
2/4/2021				0.003 (J)		
3/11/2021			<0.015			
3/12/2021				0.003 (J)		
8/26/2021	<0.015	<0.015	<0.015	0.0028 (J)		
1/11/2022	<0.015	<0.015				
3/3/2022	<0.015		<0.015	0.0027 (J)		
3/4/2022		<0.015				
6/6/2022	<0.015					
6/7/2022		<0.015				
8/16/2022			<0.015			
8/17/2022		<0.015		0.0027 (J)		
8/18/2022	<0.015					
10/19/2022					0.0087 (J)	<0.015

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	5.24	7.81	6.23				
5/18/2016				5.55	7.23	5.47	7.92
7/18/2016	5.434038						
7/19/2016			6.285413			5.336672	7.154587
7/20/2016				5.656628	7.281557		
9/13/2016	5.22	7.18	6.3	5.63	7.15		7.96
9/14/2016						7.29	
11/9/2016	5.57	6.03	6.26				7.27
11/10/2016				5.61	6.33		
1/17/2017	5.48		6.8				
1/18/2017				5.81	6.94		7.72
1/19/2017		6.71				6.59	
3/13/2017	5.4		6.18				
3/14/2017		6.45		5.53	6.75	5.86	
4/24/2017	5.4		6.35				
4/25/2017		6.93		5.59	6.84	5.35	7.73
8/8/2017	5.32	6.72	6.23	5.52			7.74
8/9/2017					6.67	5.25	
8/25/2017						5.44	
10/10/2017	5.26		6.32				
10/11/2017		6.75		5.51	6.75	6.99	7.71
3/27/2018	5.39		6.14				
3/28/2018		6.84		5.6	6.79	5.95	7.28
6/13/2018	5.33	6.31				5.13	7.78
6/14/2018			6.02	5.58	6.67		
9/24/2018			6.1				
9/27/2018	5.33						
9/28/2018		6.26					
10/2/2018							7.52
10/3/2018				5.45	6.92	5.22	
2/25/2019	5.25		6.02				
2/26/2019		7.66		5.6	6.74	5.21	7.87
4/1/2019	5.31		6.09				
4/2/2019		7.53		5.69	6.81	5.25	7.94
9/16/2019	5.28					6.94	7.55
9/17/2019		6.47	6.25		6.93		
9/18/2019				5.62			
2/3/2020	5.4		6.09				
2/4/2020				5.66	7.29	5.31	7.74
2/5/2020		6.73					
3/16/2020	5.29		6.01				
3/17/2020		6.36		5.61	6.83	5.34	7.96
9/21/2020			6.05	5.35	6.81		
9/22/2020	5.09	7.18				6.78	7.4
2/2/2021	5.36	6.48	6.1	5.78	6.61		
2/3/2021						5.3	7.76
3/10/2021		5.8	6.11	5.49	7.19	5.22	
3/11/2021	5.26						7.93
8/23/2021			6.18				
8/24/2021	5.21				7.22	6.8	7.88
8/25/2021		6.74		5.52			
2/28/2022					7.14		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
3/1/2022	5.32		6.2	5.59		5.47	7.86
3/3/2022		5.94					
8/15/2022	5.28		6.04			6.54	7.76
8/16/2022		6.19		5.46	6.92		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	5.5	8.96					7.75
5/19/2016			5.93	6.91	6.85		
7/18/2016			5.9661				
7/19/2016	5.43						7.876073
7/20/2016		8.56774		6.962608	6.705264		
9/1/2016				6.96			
9/13/2016	5.57						
9/14/2016					6.7		7.79
11/10/2016	6.93				6.5		7.76
11/11/2016		6.96	6.03	6.76			
1/18/2017	7.16						
1/24/2017							7.71
1/27/2017			6.21	6.66	6.47		
2/6/2017		6.93					
2/8/2017						5.81	
2/23/2017						5.8	
3/14/2017	5.82						7.57
3/15/2017		6.82	5.97	6.3	6.75		
3/17/2017						5.97	
4/11/2017						6.18	
4/25/2017	5.57						7.47
4/26/2017		6.73	6.17	6.67	6.57	6.09	
5/17/2017						6.26	
6/7/2017						6.21	
7/11/2017						6	
8/8/2017	5.6						
8/9/2017					6.55		7.37
8/10/2017		6.66	6.05	6.7			
10/11/2017	5.43					6.97	7.42
10/12/2017		6.67	6.89	6.89	6.67		
3/28/2018	5.29						
3/29/2018			6.85	7.08	6.99	6.51	
3/30/2018		6.98					7.48
6/14/2018	5.39	6.56	5.89	6.73	6.39	5.76	7.5
10/3/2018	5.33						7.11
10/4/2018		6.4	5.81	6.79	6.5	5.97	
2/26/2019	5.62						
2/27/2019		6.23	5.78	6.7	6.47	5.73	7.4
4/2/2019	5.6						
4/3/2019			6.07	6.91	6.47	5.68	
4/4/2019		6.46					7.58
9/18/2019	5.6				6.46	5.5	7.8
9/19/2019		6.45	5.82	6.63			
2/5/2020	5.54	6.42	5.89	6.76	6.44	5.52	
2/7/2020							7.66
3/17/2020	5.32						
3/18/2020		6.4	5.89	6.94			7.73
3/19/2020					6.56	5.49	
9/22/2020	5.36						
9/23/2020		6.14		6.42			7.35
9/24/2020			5.5		6.29	5.16	
2/2/2021	5.84						

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/3/2021			5.21	6.15			
2/4/2021		6.21			6.34	5.76	7.77
3/10/2021	4.96						
3/11/2021		6.56			5.95	5.1	
3/12/2021			5.46	6.66			7.72
8/24/2021	5.53						
8/25/2021			5.66	6.69	6.27	5.39	
8/26/2021		6.31					7.58
3/3/2022	5.49	6.36	5.59		6.31	5.4	7.61
3/4/2022				6.79			
8/16/2022	5.32		5.56				
8/17/2022							7.54
8/18/2022				6.52	6.15		
8/19/2022		6.2				5.25	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	6.06	6.41					
7/18/2016	5.884339						
7/20/2016		6.662463					
9/14/2016	5.89	6.7					
11/10/2016	5.6	6.51					
11/11/2016			6.93				
1/20/2017		6.55					
1/24/2017	5.54						
2/6/2017			6.8				
3/14/2017		6.27					
3/15/2017	5.39		6.78				
4/11/2017			6.79				
4/25/2017	5.28	6.26					
4/26/2017			6.82				
6/7/2017			6.76				
7/11/2017			6.99				
8/9/2017	5.46	6.47					
8/10/2017			6.59				
10/11/2017	5.45	6.47					
10/12/2017			6.7				
3/29/2018	5.33		6.88				
3/30/2018		6.71					
6/14/2018	5.35	6.15	6.72				
10/4/2018	5.28	6.14	6.67				
2/26/2019		6.17					
2/27/2019	5.08						
2/28/2019			6.98				
4/2/2019			6.75				
4/4/2019	5.19	6.16					
9/18/2019	5.19	6.17	6.71				
2/7/2020	5.17	6.34	7.08				
3/18/2020	5.08	6.28					
5/4/2020			6.9				
9/23/2020	5.05	5.89	6.59				
2/3/2021			6.75				
2/4/2021	5.42	6.31					
3/8/2021				5.54			
3/9/2021					7.29	5.56	5.81
3/11/2021	5.21	5.96	7.12				
4/7/2021					7.05		5.57
4/8/2021				5.6		6.01	
8/25/2021	5.25	6.09					
8/26/2021			6.66	5.37	6.88	5.4	5.8
1/11/2022					6.68	5.4	5.61
1/12/2022				5.19			
3/3/2022	5.22		6.69		6.88		
3/4/2022		6.21		5.23		5.34	5.74
6/6/2022					6.69		5.73
6/7/2022				5.39		5.41	
8/16/2022		6.02			6.72		
8/17/2022	5.24		6.6				5.64
8/18/2022				5.29			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
8/19/2022						5.34	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			5.99	6.31		
7/20/2016			6.194334	6.345061		
9/14/2016				6.33		
9/15/2016			6.38			
11/14/2016			5.7			
2/6/2017			5.66			
3/15/2017			5.77	5.99		
4/26/2017			5.39	6.03		
8/10/2017			5.59	5.86		
10/12/2017			5.46	6.09		
3/29/2018			5.43	5.89		
6/14/2018			5.76	6.47		
10/4/2018			5.39	6.17		
2/28/2019				6.045 (D)		
4/3/2019			5.55	6.1		
9/19/2019			5.39	6.38		
2/5/2020				6.54		
2/7/2020			5.38			
3/19/2020			6.43	6.64		
9/22/2020			5.17			
9/23/2020				5.8		
2/3/2021			5.08			
2/4/2021				6.22		
3/8/2021		5.36				
3/9/2021	4.29					
3/11/2021			5.35			
3/12/2021				5.88		
4/7/2021	4.43					
4/8/2021		5.39				
8/26/2021	4.33	5.3	5.36	5.84		
1/11/2022	4.39	5.26				
3/3/2022	4.39		5.21	5.86		
3/4/2022		5.21				
6/6/2022	4.52					
6/7/2022		5.32				
8/16/2022			5.4			
8/17/2022		5.28		5.8		
8/18/2022	4.42					
10/19/2022					6.27	5.93

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.005	<0.005	<0.005				
5/18/2016				<0.005	<0.005	<0.005	<0.005
7/19/2016	<0.005	<0.005	<0.005			<0.005	<0.005
7/20/2016				<0.005	<0.005		
9/13/2016	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
9/14/2016						<0.005	
11/9/2016	<0.005	<0.005	<0.005				<0.005
11/10/2016				<0.005	<0.005		
1/17/2017	<0.005		<0.005				
1/18/2017				<0.005	<0.005		<0.005
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		<0.005				
3/14/2017		0.0028		0.00026 (J)	<0.005	<0.005	<0.005
4/24/2017	<0.005		<0.005				
4/25/2017		0.0018		0.00035 (J)	<0.005	<0.005	<0.005
8/8/2017	0.0013	<0.005	<0.005	<0.005			<0.005
8/9/2017					<0.005	<0.005	
3/27/2018	0.00055 (J)		<0.005				
3/28/2018		<0.005		<0.005	<0.005	<0.005	<0.005
6/13/2018	<0.005	<0.005				0.00025 (J)	<0.005
6/14/2018			<0.005	<0.005	0.00032 (J)		
9/24/2018			<0.005				
9/27/2018	<0.005						
9/28/2018		<0.005					
10/2/2018							<0.005
10/3/2018				<0.005	<0.005	<0.005	
2/25/2019	<0.005		<0.005				
2/26/2019		<0.005		<0.005	<0.005	<0.005	<0.005
4/1/2019	<0.005		<0.005				
4/2/2019		<0.005		<0.005	<0.005	<0.005	<0.005
9/16/2019	<0.005					<0.005	<0.005
9/17/2019		<0.005	<0.005		<0.005		
9/18/2019				<0.005			
2/3/2020	<0.005		<0.005				
2/4/2020				<0.005	<0.005	<0.005	<0.005
2/5/2020		<0.005					
3/16/2020	<0.005		0.0026 (J)				
3/17/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/21/2020			<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005				<0.005	<0.005
2/2/2021	<0.005	<0.005	<0.005	<0.005	<0.005		
2/3/2021						<0.005	<0.005
3/10/2021		<0.005	<0.005	<0.005	<0.005	<0.005	
3/11/2021	<0.005						<0.005
8/23/2021			<0.005				
8/24/2021	<0.005				<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005			
2/28/2022					<0.005		
3/1/2022	<0.005		<0.005	<0.005		<0.005	<0.005
3/3/2022		<0.005					
8/15/2022	<0.005		<0.005			<0.005	<0.005
8/16/2022		<0.005		<0.005	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005	<0.005					<0.005
5/19/2016			<0.005	<0.005	<0.005		
7/19/2016	<0.005						<0.005
7/20/2016		<0.005	<0.005	<0.005	<0.005		
9/13/2016	<0.005						
9/14/2016		<0.005	<0.005	<0.005	<0.005		<0.005
11/10/2016	<0.005				<0.005		<0.005
11/11/2016		<0.005	<0.005	<0.005			
1/18/2017	<0.005						
1/24/2017							<0.005
1/27/2017			<0.005	<0.005	<0.005		
2/6/2017		<0.005					
2/8/2017						<0.005	
2/23/2017						<0.005	
3/14/2017	<0.005						<0.005
3/15/2017		<0.005	<0.005	<0.005	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						<0.005
4/26/2017		<0.005	<0.005	<0.005	<0.005	<0.005	
5/17/2017						<0.005	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		<0.005
8/10/2017		0.00031 (J)	0.00049 (J)	0.0021			
3/28/2018	<0.005						
3/29/2018			<0.005	<0.005	<0.005	0.0003 (J)	
3/30/2018		<0.005					<0.005
6/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0005 (J)
10/3/2018	<0.005						<0.005
10/4/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2019	<0.005						
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/2/2019	<0.005						
4/3/2019			<0.005	<0.005	<0.005	<0.005	
4/4/2019		<0.005					<0.005
9/18/2019	<0.005				<0.005	<0.005	<0.005
9/19/2019		<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/7/2020							<0.005
3/17/2020	<0.005						
3/18/2020		<0.005	<0.005	<0.005			<0.005
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		<0.005		<0.005			<0.005
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	<0.005			
2/4/2021		<0.005			<0.005	<0.005	<0.005
3/10/2021	<0.005						
3/11/2021		<0.005			<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	<0.005			<0.005
8/24/2021	<0.005						
8/25/2021			<0.005	<0.005	<0.005	<0.005	
8/26/2021		<0.005					<0.005
3/3/2022	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
3/4/2022				<0.005			
8/16/2022	<0.005		<0.005				
8/17/2022							<0.005
8/18/2022				<0.005	<0.005		
8/19/2022		<0.005				<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.00735	<0.005					
7/19/2016	0.0075						
7/20/2016		<0.005					
9/14/2016	0.0091	<0.005					
11/10/2016	0.0056	<0.005					
11/11/2016			<0.005				
1/20/2017		<0.005					
1/24/2017	0.012						
2/6/2017			<0.005				
3/14/2017		<0.005					
3/15/2017	0.012		<0.005				
4/11/2017			<0.005				
4/25/2017	0.013	<0.005					
4/26/2017			<0.005				
6/7/2017			<0.005				
7/11/2017			<0.005				
8/9/2017	0.016	<0.005					
8/10/2017			0.00036 (J)				
3/29/2018	0.016		<0.005				
3/30/2018		<0.005					
6/14/2018	0.012	<0.005	<0.005				
10/4/2018	0.013	<0.005	<0.005				
2/26/2019		<0.005					
2/27/2019	0.0081						
2/28/2019			<0.005				
4/2/2019			<0.005				
4/4/2019	0.0091	<0.005					
9/18/2019	0.0044 (J)	<0.005	<0.005				
2/7/2020	0.0036 (J)	<0.005	<0.005				
3/18/2020	0.0046 (J)	<0.005					
5/4/2020			<0.005				
9/23/2020	0.0028 (J)	<0.005	<0.005				
2/3/2021			<0.005				
2/4/2021	0.0023 (J)	<0.005					
3/11/2021	0.0023 (J)	<0.005	<0.005				
8/25/2021	0.0019 (J)	<0.005					
8/26/2021			<0.005	0.0016 (J)	<0.005	0.0049 (J)	0.002 (J)
1/11/2022					<0.005	0.0065	0.0024 (J)
1/12/2022				<0.005			
3/3/2022	0.0018 (J)		<0.005		<0.005		
3/4/2022		<0.005		0.0014 (J)		0.0072	0.002 (J)
6/6/2022					<0.005		0.0018 (J)
6/7/2022				0.0014 (J)		0.0047 (J)	
8/16/2022		<0.005			<0.005		
8/17/2022	<0.005		<0.005				0.0013 (J)
8/18/2022				0.0027 (J)			
8/19/2022						0.0035 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			0.00518	0.00228		
7/20/2016			0.0038	0.0016		
9/14/2016				0.0024		
9/15/2016			0.0034			
11/14/2016			0.0033			
2/6/2017			0.0033			
2/9/2017				0.0023		
3/15/2017			0.003	0.0031		
4/11/2017				0.0023		
4/26/2017			0.0032	0.0019		
8/10/2017			0.0031	0.0021		
3/29/2018			0.0034	0.0021		
6/14/2018			0.0031	0.0025		
10/4/2018			0.0033	0.002		
2/27/2019			0.0035			
2/28/2019				0.0027		
4/3/2019			0.0031	0.0019		
9/19/2019			0.0021 (J)	0.0026 (J)		
2/5/2020				0.0033 (J)		
2/7/2020			0.0048 (J)			
3/19/2020			0.0037 (J)	0.0033 (J)		
9/22/2020			0.0039 (J)			
9/23/2020				0.0029 (J)		
2/3/2021			0.0036 (J)			
2/4/2021				0.003 (J)		
3/11/2021			0.0038 (J)			
3/12/2021				0.0034 (J)		
8/26/2021	<0.005	<0.005	0.0037 (J)	0.0028 (J)		
1/11/2022	<0.005	<0.005				
3/3/2022	0.00077 (J)		0.0038 (J)	0.0021 (J)		
3/4/2022		<0.005				
6/6/2022	<0.005					
6/7/2022		<0.005				
8/16/2022			0.0075			
8/17/2022		<0.005		0.0022 (J)		
8/18/2022	<0.005					
10/19/2022					0.0014 (J)	<0.005

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<1	19.9	1.14				
5/18/2016				0.821 (J)	5.32	0.955 (J)	8.88
7/19/2016	<1	14	1.4			0.76 (J)	9
7/20/2016				0.82 (J)	6.5		
9/13/2016	<1	11	1.1	0.81 (J)	5.6		8.5
9/14/2016						3.4	
11/9/2016	<1	6.3	1.1				8.2
11/10/2016				0.73 (J)	5.4		
1/17/2017	<1		2.1				
1/18/2017				0.99 (J)	5.1		9.4
1/19/2017		7.4				21	
3/13/2017	<1		0.97 (J)				
3/14/2017		10		0.83 (J)	4.6	1.4	2
4/24/2017	<1		0.75 (J)				
4/25/2017		10		0.7 (J)	6.6	0.89 (J)	8.2
8/8/2017	<1	12	1.1	0.82 (J)			8.5
8/9/2017					7.3	0.75 (J)	
10/10/2017	<1		1.3				
10/11/2017		11		0.72 (J)	6.8	<1	8.3
6/13/2018	<1	8.2				<1	8.3
6/14/2018			0.84 (J)	<1	6.9		
9/24/2018			0.79 (J)				
9/27/2018	<1						
9/28/2018		7.6					
10/2/2018							8.3
10/3/2018				0.73 (J)	7	<1	
4/1/2019	<1		1				
4/2/2019		11		1.1	8.1	0.94 (J)	8.5
9/16/2019	0.49 (J)					2.2	8.9
9/17/2019		8	1.3		8.1		
9/18/2019				0.78 (J)			
3/16/2020	0.42 (J)		1.3				
3/17/2020		8.5		1.2	12	4	12
9/21/2020			1.1	0.77 (J)	7.7		
9/22/2020	<1	9				1.5	8
3/10/2021		7.1	0.9 (J)	0.91 (J)	8.1	<1	
3/11/2021	<1						8.4
8/23/2021			1.3				
8/24/2021	<1				7.9	2.8	8.9
8/25/2021		8.2		0.79 (J)			
2/28/2022					8.4		
3/1/2022	<1		1.6	0.98 (J)		0.99 (J)	9.2
3/3/2022		8.5					
8/15/2022	<1		0.54 (J)			1.6	7.5
8/16/2022		7.2		0.52 (J)	6.9		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.368 (J)	2.84					50.7
5/19/2016			1.83	15.8	19.2		
7/19/2016	<1						62
7/20/2016		2.8	1.6	16	11		
9/13/2016	<1						
9/14/2016		2.8	1.5	16	8.6		79
11/10/2016	<1				5.7		61
11/11/2016		2.6	1.4	14			
1/18/2017	1.4						
1/24/2017							34
1/27/2017			2.5	15	6.8		
2/6/2017		2.7					
2/8/2017						4.3	
2/23/2017						16	
3/14/2017	<1						43
3/15/2017		2.7	2.5	17	11		
3/17/2017						22	
4/11/2017						13	
4/25/2017	<1						39
4/26/2017		2.5	2.2	15	8.1	20	
5/17/2017						12	
6/7/2017						8.1	
7/11/2017						17	
8/8/2017	<1						
8/9/2017					8.1		35
8/10/2017		2.2	2.3	16			
10/11/2017	<1					3.4	48
10/12/2017		1.9	1.9	14	6.1		
6/14/2018	<1	2	1.7	14	5	5.8	44
10/3/2018	<1						49
10/4/2018		1.9	1.6	14	4.3	2.8	
4/2/2019	0.4 (J)						
4/3/2019			1.9	13	3.8	3.8	
4/4/2019		2.2					41
9/18/2019	<1				3.9	1.7	37
9/19/2019		2.1	1.3	14			
3/17/2020	0.86 (J)						
3/18/2020		2.1	1.6	12			17
3/19/2020					4	1.5	
9/22/2020	0.38 (J)						
9/23/2020		1.8		12			21
9/24/2020			2.7		0.63 (J)	1.2	
3/10/2021	<1						
3/11/2021		2.8			2.9	1.7	
3/12/2021			2	14			19
8/24/2021	<1						
8/25/2021			1.1	13	1.8	<1	
8/26/2021		1.8					16
3/3/2022	<1	2	2.3		3	1.3	18
3/4/2022				14			
8/16/2022	<1		0.98 (J)				
8/17/2022							14

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				11	1.7		
8/19/2022		1.6				<1	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	388	32.1					
7/19/2016	460						
7/20/2016		9.7					
9/14/2016	500	6.6					
11/10/2016	530	5.2					
11/11/2016			3.4				
1/20/2017		5.3					
1/24/2017	600						
2/6/2017			3.7				
3/14/2017		9.6					
3/15/2017	610		3.6				
4/11/2017			3.2				
4/25/2017	620	20					
4/26/2017			3.3				
6/7/2017			3.8				
7/11/2017			3.3				
8/9/2017	780	6.5					
8/10/2017			3.7				
10/11/2017	720	13					
10/12/2017			3.6				
6/14/2018	620	16	3.5				
10/4/2018	560	15	4.6				
4/2/2019			3.8				
4/4/2019	250	9.1					
9/18/2019	130	7.3	3.6				
3/18/2020	120	4.2					
5/4/2020			4.5				
9/23/2020	85	4.4	3				
3/8/2021				240			
3/9/2021					230	80	14
3/11/2021	64	3.9	4				
4/7/2021					190		5.1
4/8/2021				240		60	
8/25/2021	63	3.3					
8/26/2021			3.5	290	190	100	7.5
1/11/2022					260	140	5.3
1/12/2022				360			
3/3/2022	57		4.8		250		
3/4/2022		3.6		390		150	5
6/6/2022					140		5.3
6/7/2022				280		96	
8/16/2022		3.4			240		
8/17/2022	49		2.8				5.5
8/18/2022				280			
8/19/2022						87	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			146	35.9		
7/20/2016			150	37		
9/14/2016				39		
9/15/2016			140			
11/14/2016			160			
2/6/2017			180			
2/9/2017				60		
3/15/2017			170	44		
4/11/2017				36		
4/26/2017			180	37		
8/10/2017			180	38		
10/12/2017			180	37		
6/14/2018			170	37		
10/4/2018			780	38		
4/3/2019			180	41		
9/19/2019			190	42		
3/19/2020			200	45		
9/22/2020			200			
9/23/2020				54		
3/8/2021		4.7				
3/9/2021	140					
3/11/2021			220			
3/12/2021				62		
4/7/2021	160					
4/8/2021		5.8				
8/26/2021	170	13	220	52		
1/11/2022	160	21				
3/3/2022	130		250	58		
3/4/2022		21				
6/6/2022	67					
6/7/2022		22				
8/16/2022			220			
8/17/2022		25		50		
8/18/2022	49					
10/19/2022					290	12

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/14/2016						9E-05 (J)	
11/9/2016	<0.001	<0.001	<0.001				<0.001
11/10/2016				<0.001	<0.001		
1/17/2017	<0.001		<0.001				
1/18/2017				<0.001	<0.001		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
6/13/2018	<0.001	<0.001				<0.001	<0.001
6/14/2018			<0.001	<0.001	<0.001		
9/24/2018			<0.001				
9/27/2018	<0.001						
9/28/2018		<0.001					
10/2/2018							<0.001
10/3/2018				<0.001	<0.001	<0.001	
2/25/2019	<0.001		<0.001				
2/26/2019		<0.001		<0.001	<0.001	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	0.00016 (J)					<0.001	0.00062 (J)
9/17/2019		<0.001	<0.001		<0.001		
9/18/2019				<0.001			
2/3/2020	<0.001		0.0002 (J)				
2/4/2020				<0.001	<0.001	<0.001	<0.001
2/5/2020		<0.001					
3/16/2020	0.00036 (J)		0.0003 (J)				
3/17/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	0.0004 (J)	<0.001	<0.001		
2/3/2021						0.00042 (J)	<0.001
3/10/2021		<0.001	0.00073 (J)	0.00028 (J)	0.00017 (J)	<0.001	
3/11/2021	0.00045 (J)						<0.001
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					
8/15/2022	<0.001		<0.001			<0.001	<0.001
8/16/2022		<0.001		<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016	<0.001				<0.001		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
2/6/2017		<0.001					
2/8/2017						0.00011 (J)	
2/23/2017						0.00012 (J)	
3/14/2017	<0.001						<0.001
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	0.0002 (J)	
3/30/2018		8.5E-05 (J)					<0.001
6/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 (J)	<0.001
10/3/2018	<0.001						<0.001
10/4/2018		<0.001	<0.001	<0.001	<0.001	0.00013 (J)	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	<0.001	0.00016 (J)	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	<0.001	0.00012 (J)	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				<0.001	<0.001	<0.001
9/19/2019		<0.001	<0.001	<0.001			
2/5/2020	0.00026 (J)	<0.001	<0.001	<0.001	<0.001	0.00022 (J)	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			<0.001
3/19/2020					<0.001	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			<0.001
9/24/2020			<0.001		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			0.00016 (J)	<0.001			
2/4/2021		<0.001			<0.001	0.00021 (J)	<0.001
3/10/2021	<0.001						
3/11/2021		<0.001			<0.001	0.00019 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					<0.001
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
3/4/2022				<0.001			
8/16/2022	<0.001		<0.001				
8/17/2022							<0.001
8/18/2022				<0.001	<0.001		
8/19/2022		<0.001				<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/5/2023 1:52 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	8.5E-05 (J)						
7/20/2016		<0.001					
9/14/2016	0.00017 (J)	<0.001					
11/10/2016	0.00017 (J)	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.00023 (J)						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.00021 (J)		<0.001				
4/11/2017			<0.001				
4/25/2017	0.00024 (J)	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0002 (J)	<0.001					
8/10/2017			<0.001				
3/29/2018	0.00019 (J)		<0.001				
3/30/2018		<0.001					
6/14/2018	0.00017 (J)	<0.001	<0.001				
10/4/2018	0.00015 (J)	<0.001	<0.001				
2/26/2019		<0.001					
2/27/2019	0.00015 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	9.5E-05 (J)	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	<0.001					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			0.00018 (J)				
2/4/2021	<0.001	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	<0.001	<0.001
1/11/2022					<0.001	<0.001	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		<0.001		<0.001		
3/4/2022		<0.001		<0.001		0.00047 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	
8/16/2022		<0.001			<0.001		
8/17/2022	<0.001		<0.001				<0.001
8/18/2022				<0.001			
8/19/2022						<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			<0.001	<0.001		
7/20/2016			<0.001	<0.001		
9/14/2016				<0.001		
9/15/2016			<0.001			
11/14/2016			<0.001			
2/6/2017			<0.001			
2/9/2017				<0.001		
3/15/2017			<0.001	<0.001		
4/11/2017				<0.001		
4/26/2017			<0.001	<0.001		
8/10/2017			<0.001	<0.001		
3/29/2018			<0.001	<0.001		
6/14/2018			<0.001	<0.001		
10/4/2018			<0.001	<0.001		
2/27/2019			<0.001			
2/28/2019				<0.001		
4/3/2019			<0.001	<0.001		
9/19/2019			<0.001	<0.001		
2/5/2020				<0.001		
2/7/2020			<0.001			
3/19/2020			<0.001	<0.001		
9/22/2020			<0.001			
9/23/2020				<0.001		
2/3/2021			<0.001			
2/4/2021				<0.001		
3/11/2021			<0.001			
3/12/2021				<0.001		
8/26/2021	0.00072 (J)	<0.001	<0.001	<0.001		
1/11/2022	0.00062 (J)	<0.001				
3/3/2022	0.0006 (J)		<0.001	<0.001		
3/4/2022		<0.001				
6/6/2022	0.00052 (J)					
6/7/2022		<0.001				
8/16/2022			<0.001			
8/17/2022		<0.001		<0.001		
8/18/2022	0.0003 (J)					
10/19/2022					<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<10	112	100				
5/18/2016				29	101	33	113
7/19/2016	14	80	84			<5	92
7/20/2016				<5	86		
9/13/2016	50	120	70	12	28		100
9/14/2016						150	
11/9/2016	22	76	110				130
11/10/2016				30	110		
1/17/2017	8		120				
1/18/2017				22	98		120
1/19/2017		36				34	
3/13/2017	<10		58				
3/14/2017		70		22	110	32	110
4/24/2017	10		94				
4/25/2017		70		22	86	22	100
8/8/2017	<10	72	62	4 (J)			90
8/9/2017					92	20	
10/10/2017	44		140				
10/11/2017		90		10	110	4 (J)	98
6/13/2018	24	38				<5	110
6/14/2018			80	26	92		
9/24/2018			76				
9/27/2018	28						
9/28/2018		68					
10/2/2018							130
10/3/2018				50	100	24	
4/1/2019	<10		63				
4/2/2019		100		28	100	25	110
9/16/2019	27					41	110
9/17/2019		76	120		120		
9/18/2019				36			
3/16/2020	23		90				
3/17/2020		81		20	100	18	120
9/21/2020			100	22	92		
9/22/2020	24	96				190	130
3/10/2021		72	100	20	100	19	
3/11/2021	24						110
8/23/2021			110				
8/24/2021	32				110	150	120
8/25/2021		92		21			
2/28/2022					95		
3/1/2022	30		92	31		23	140
3/3/2022		43					
8/15/2022	45		100			140	120
8/16/2022		60		30	110		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	31	70					190
5/19/2016			39	101	127		
7/19/2016	<5						180
7/20/2016		42	<10	76	88		
9/13/2016	<5						
9/14/2016		40	24	96	92		230
11/10/2016	44				100		210
11/11/2016		72	42	100			
1/18/2017	50						
1/24/2017							140
1/27/2017			18	50	80		
2/6/2017		24					
2/8/2017						54	
2/23/2017						78	
3/14/2017	26						220
3/15/2017		78	54	120	100		
3/17/2017						56	
4/11/2017						76	
4/25/2017	10						180
4/26/2017		48	42	100	92	76	
5/17/2017						68	
6/7/2017						72	
7/11/2017						68	
8/8/2017	<5						
8/9/2017					120		180
8/10/2017		38	30	96			
10/11/2017	42					68	200
10/12/2017		72	54	100	110		
6/14/2018	14	40	16	94	88	52	170
10/3/2018	6						260
10/4/2018		60	56	110	100	130	
4/2/2019	15						
4/3/2019			<10	66	72	31	
4/4/2019		30					170
9/18/2019	35				110	33	160
9/19/2019		52	27	89			
3/17/2020	19						
3/18/2020		58	26	73			160
3/19/2020					95	18	
9/22/2020	15						
9/23/2020		50		90			150
9/24/2020			60		21	24	
3/10/2021	20						
3/11/2021		52			63	24	
3/12/2021			27	78			130
8/24/2021	24						
8/25/2021			32	110	53	30	
8/26/2021		60					150
3/3/2022	17	45	21		71	17	140
3/4/2022				89			
8/16/2022	22		33				
8/17/2022							140

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/5/2023 1:52 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/18/2022				88	89		
8/19/2022		63				26	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/5/2023 1:52 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1080	107					
7/19/2016	1200						
7/20/2016		78					
9/14/2016	1300	82					
11/10/2016	1400	98					
11/11/2016			98				
1/20/2017		82					
1/24/2017	1300						
2/6/2017			36				
3/14/2017		120					
3/15/2017	1500		120				
4/11/2017			68				
4/25/2017	1700	120					
4/26/2017			76				
6/7/2017			74				
7/11/2017			70				
8/9/2017	1900	92					
8/10/2017			66				
10/11/2017	1900	74					
10/12/2017			100				
6/14/2018	1500	100	74				
10/4/2018	1700	98	100				
4/2/2019			88				
4/4/2019	710	89					
9/18/2019	520	79	96				
3/18/2020	370	98					
5/4/2020			110				
9/23/2020	250	60	94				
3/8/2021				590			
3/9/2021					610	200	79
3/11/2021	190	75	100				
4/7/2021					520		66
4/8/2021				540		170	
8/25/2021	220	84					
8/26/2021			94	720	480	240	88
1/11/2022					580	270	67
1/12/2022				1200			
3/3/2022	170		98		580		
3/4/2022		55		1100		260	69
6/6/2022					670		90
6/7/2022				920		210	
8/16/2022		81			530		
8/17/2022	170		93				85
8/18/2022				760			
8/19/2022						190	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/5/2023 1:52 PM

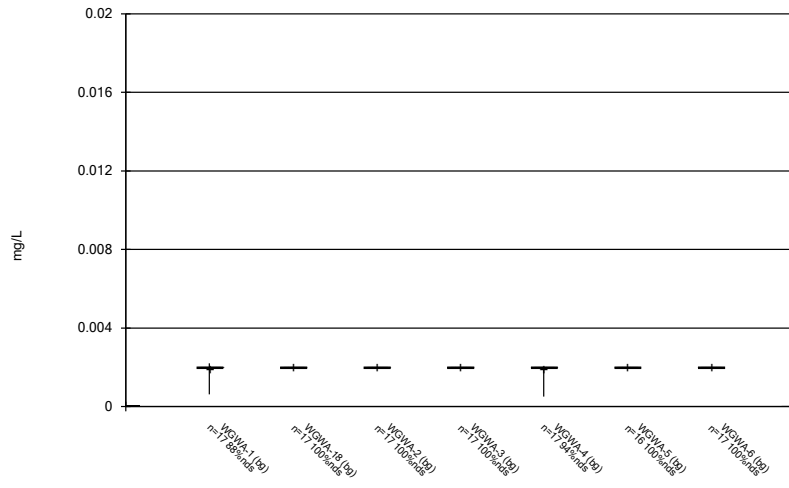
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9	WGWC-26D	WGWC-27
5/19/2016			311	134		
7/20/2016			290	120		
9/14/2016				140		
9/15/2016			270			
11/14/2016			320			
2/6/2017			330			
2/9/2017				180		
3/15/2017			370	160		
4/11/2017				120		
4/26/2017			380	140		
8/10/2017			380	130		
10/12/2017			450	120		
6/14/2018			410	120		
10/4/2018			520	140		
4/3/2019			430	120		
9/19/2019			440	130		
3/19/2020			540	160		
9/22/2020			600			
9/23/2020				150		
3/8/2021		220				
3/9/2021	370					
3/11/2021			530			
3/12/2021				130		
4/7/2021	510					
4/8/2021		180				
8/26/2021	420	200	550	170		
1/11/2022	320	220				
3/3/2022	280		530	140		
3/4/2022		200				
6/6/2022	210					
6/7/2022		240				
8/16/2022			580			
8/17/2022		210		150		
8/18/2022	140					
10/19/2022					840	92

FIGURE B.

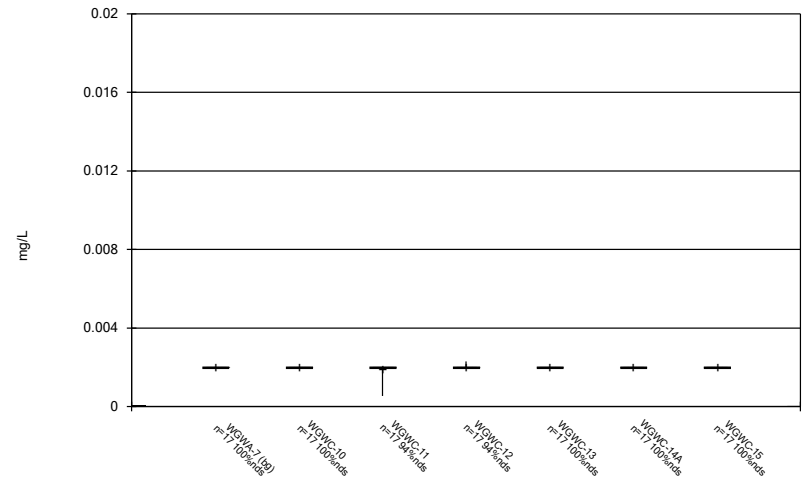
FIGURE C.

Box & Whiskers Plot



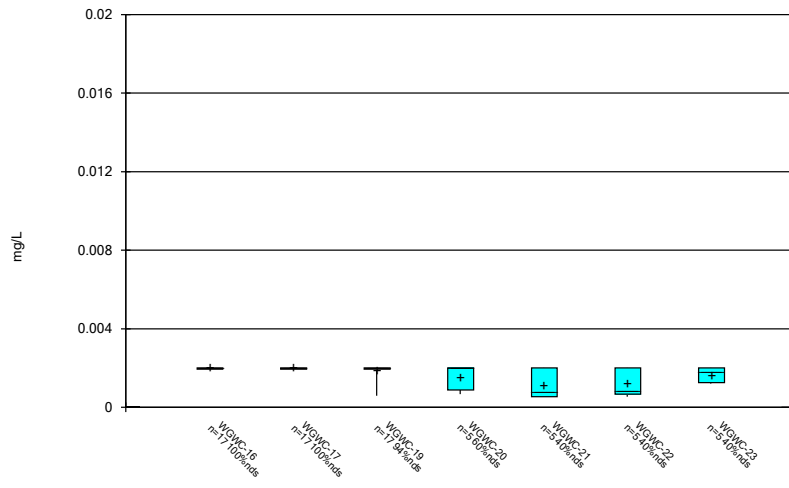
Constituent: Antimony Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



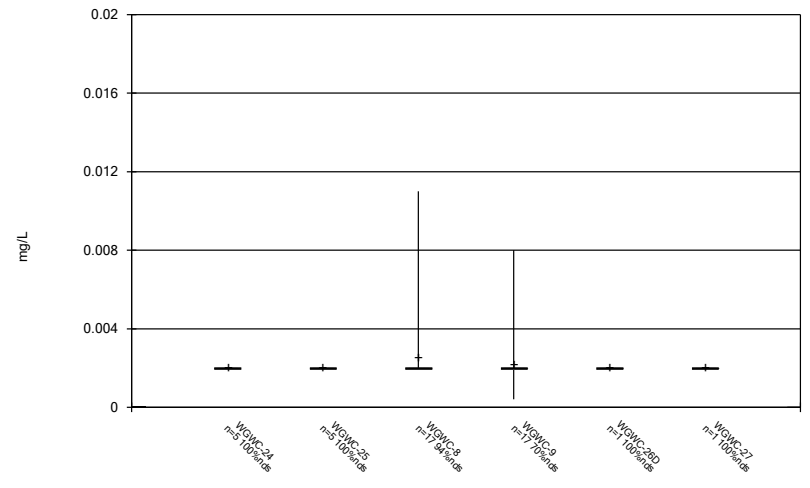
Constituent: Antimony Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



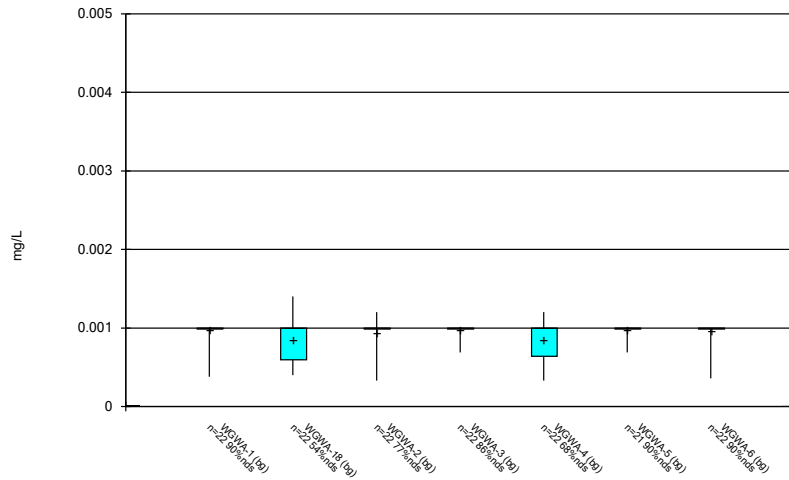
Constituent: Antimony Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



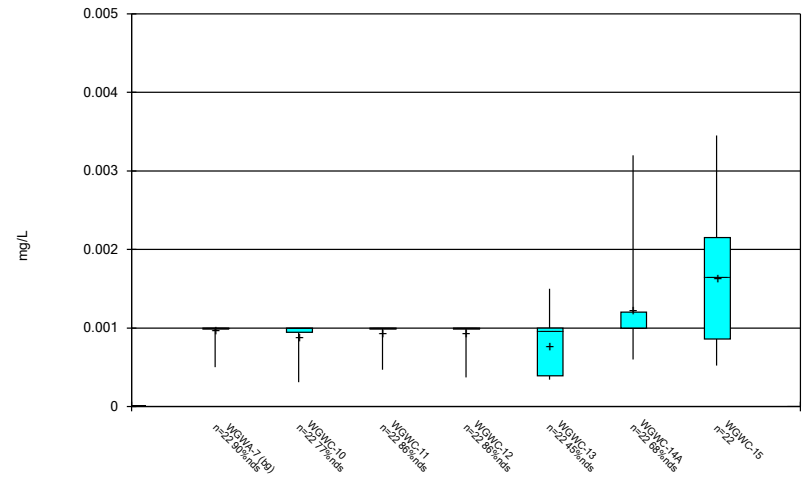
Constituent: Antimony Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



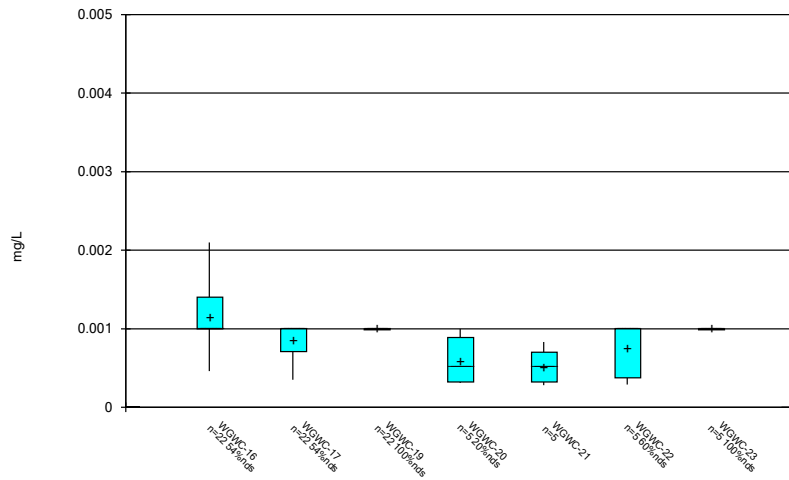
Constituent: Arsenic Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



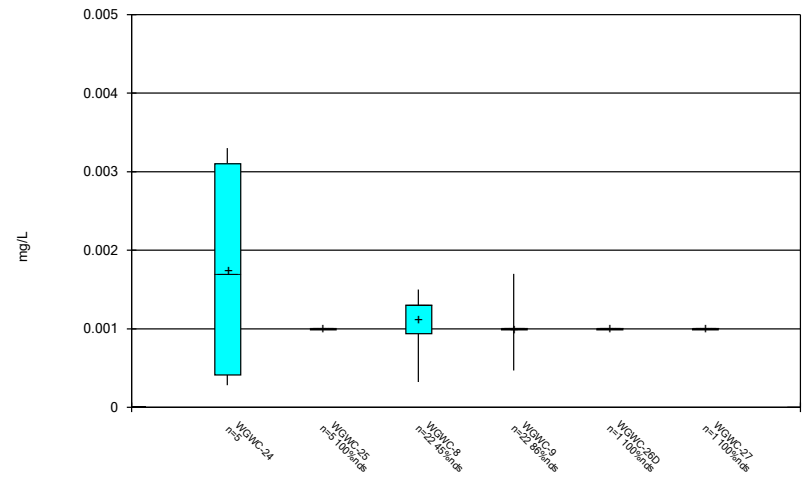
Constituent: Arsenic Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



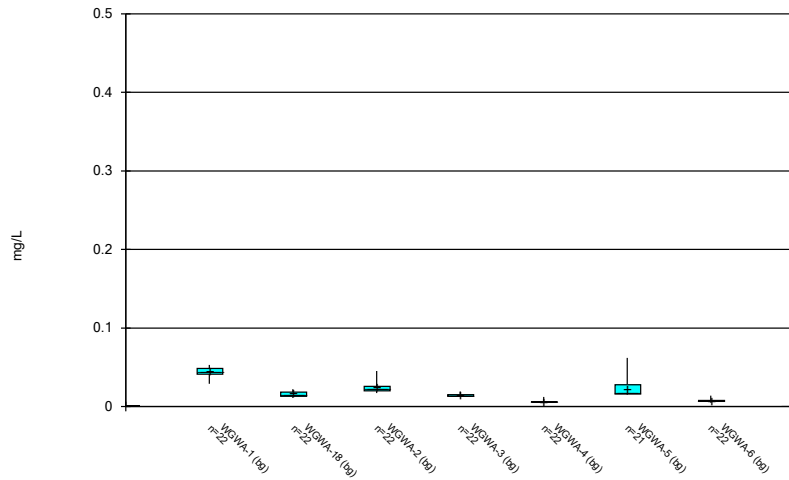
Constituent: Arsenic Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



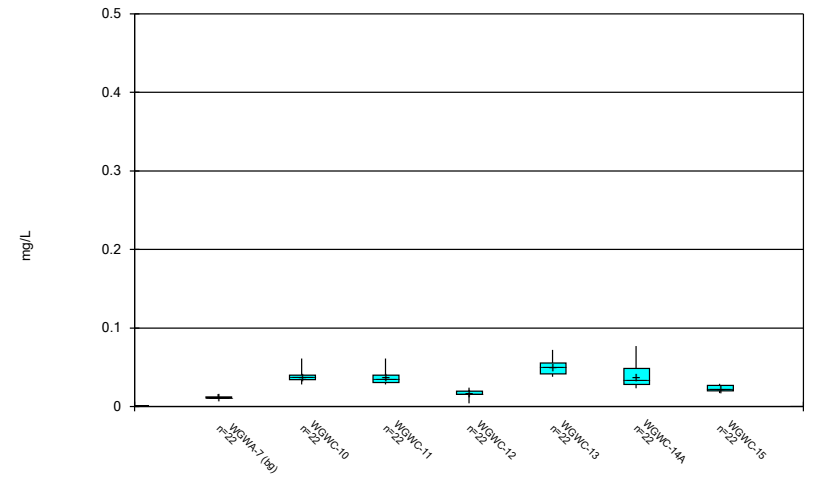
Constituent: Arsenic Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



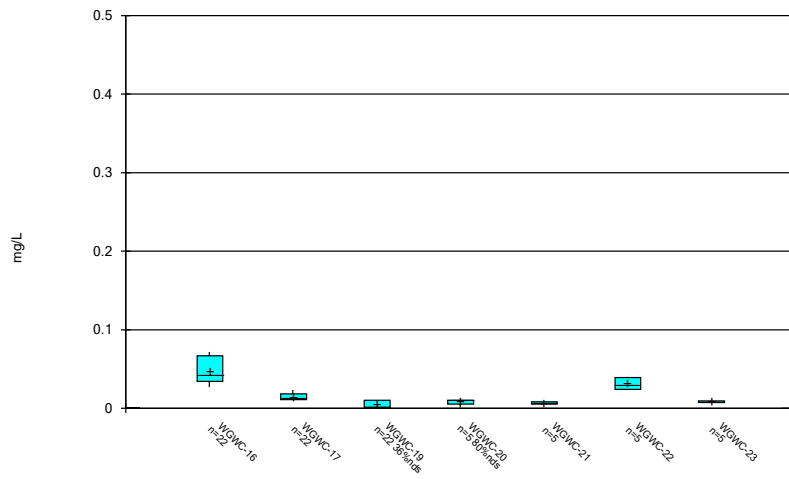
Constituent: Barium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



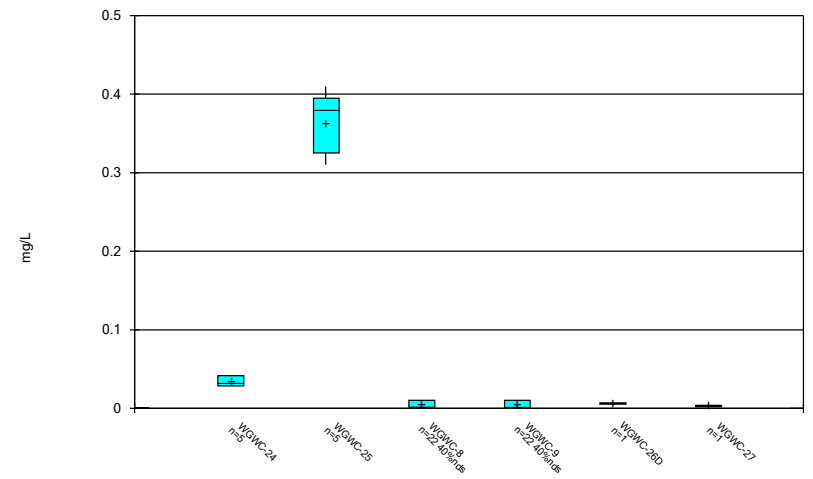
Constituent: Barium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



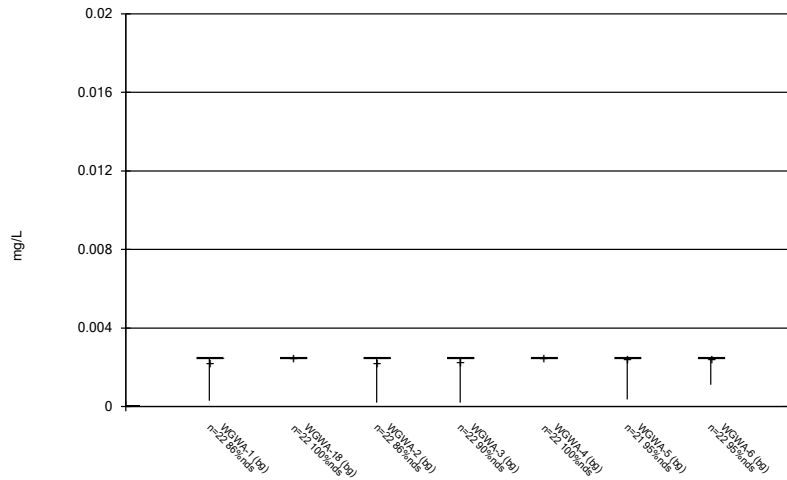
Constituent: Barium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



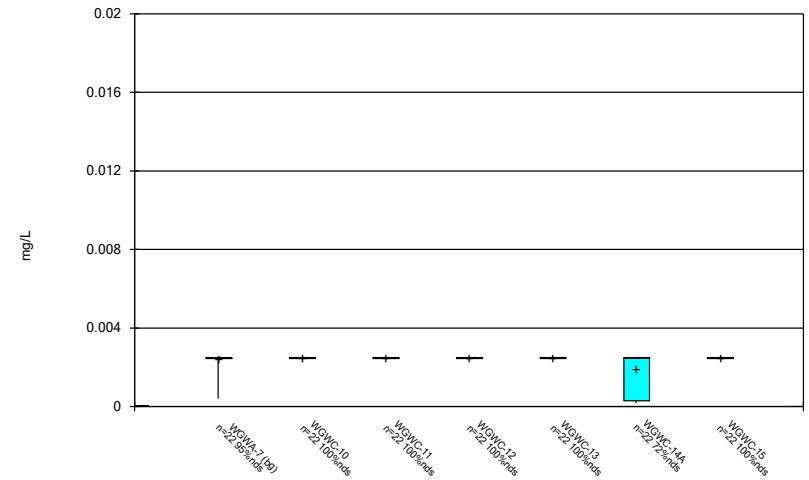
Constituent: Barium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



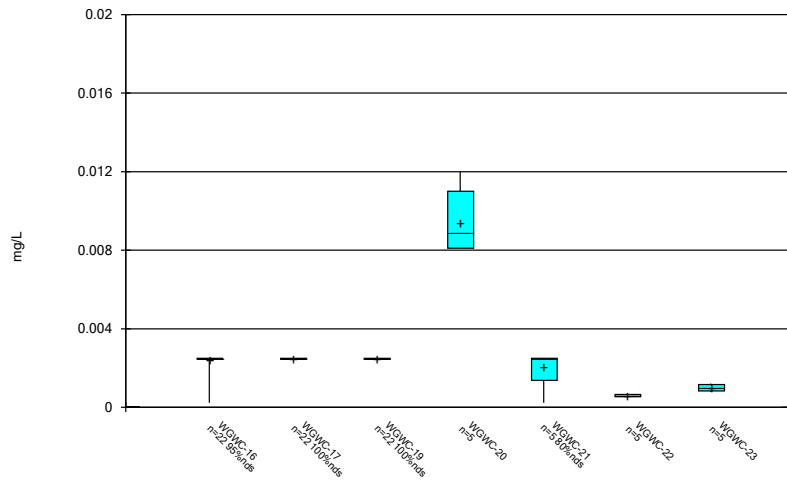
Constituent: Beryllium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



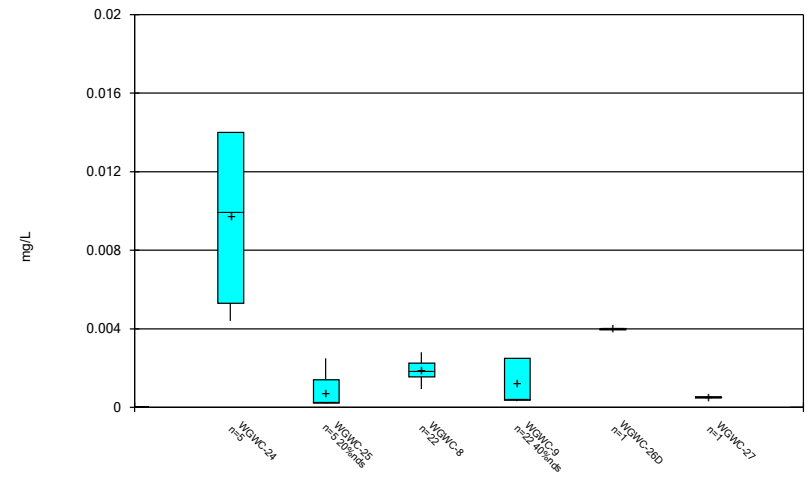
Constituent: Beryllium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



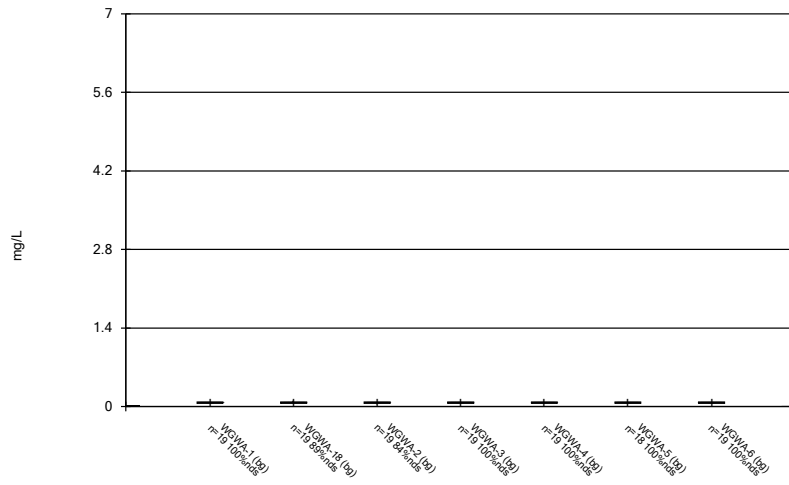
Constituent: Beryllium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



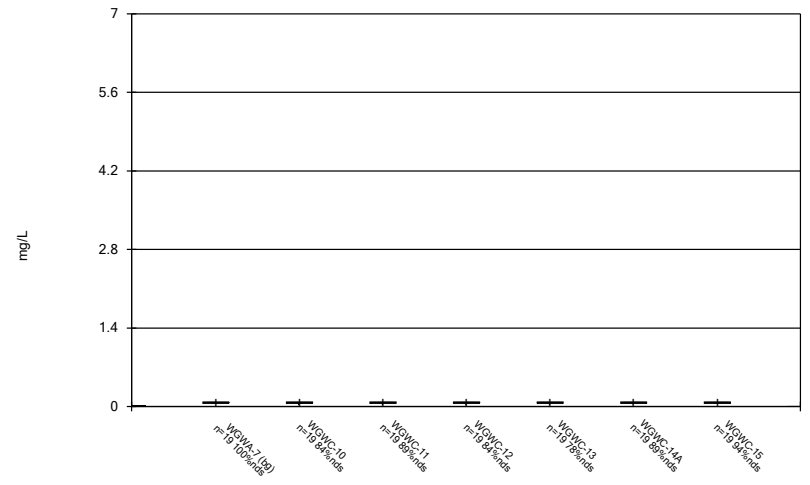
Constituent: Beryllium Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



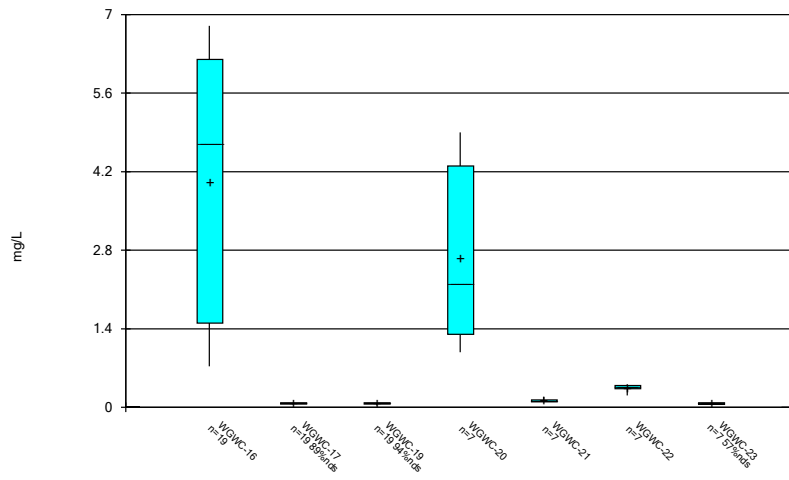
Constituent: Boron, total Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



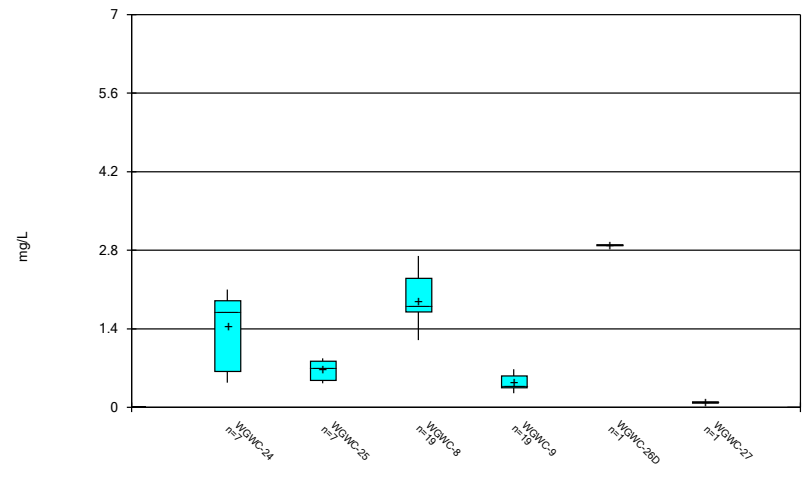
Constituent: Boron, total Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



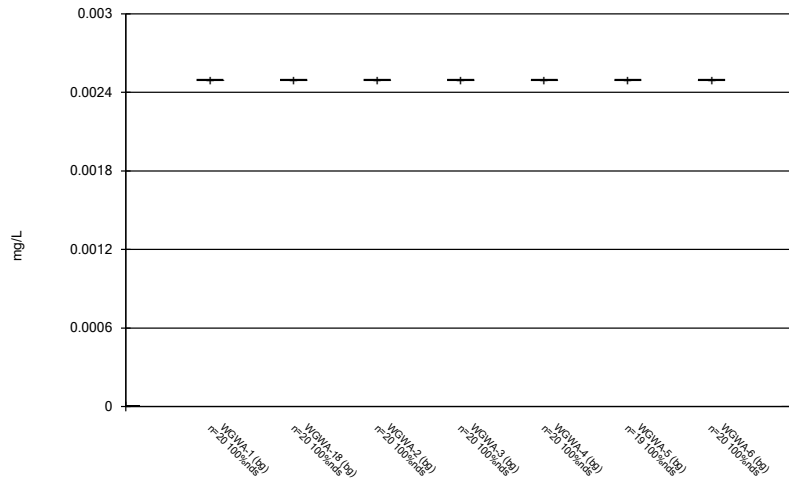
Constituent: Boron, total Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



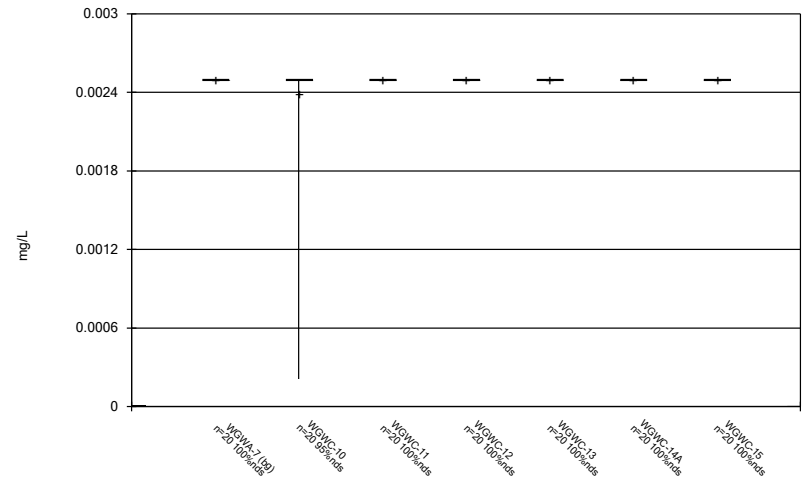
Constituent: Boron, total Analysis Run 1/5/2023 1:54 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



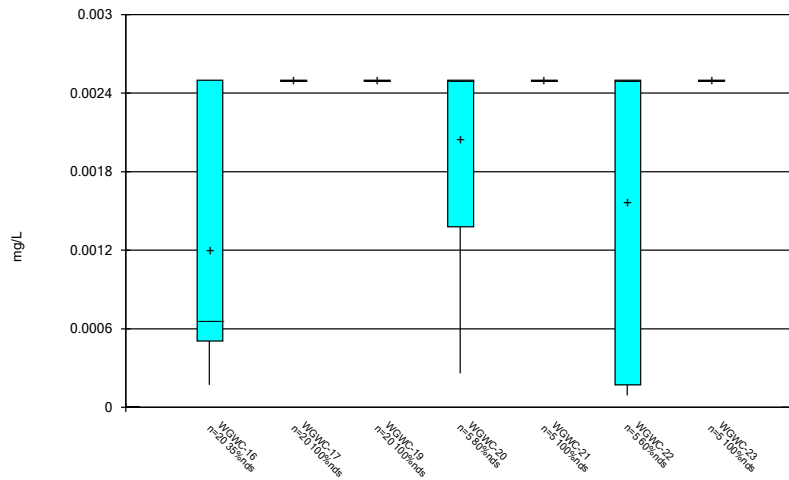
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



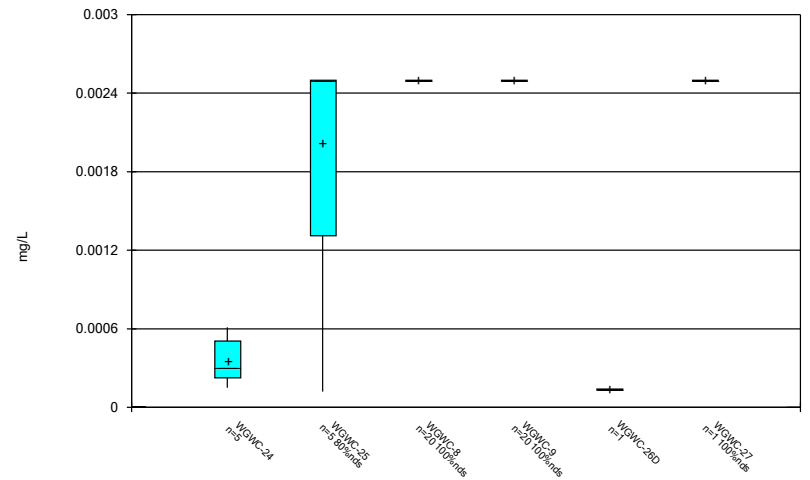
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



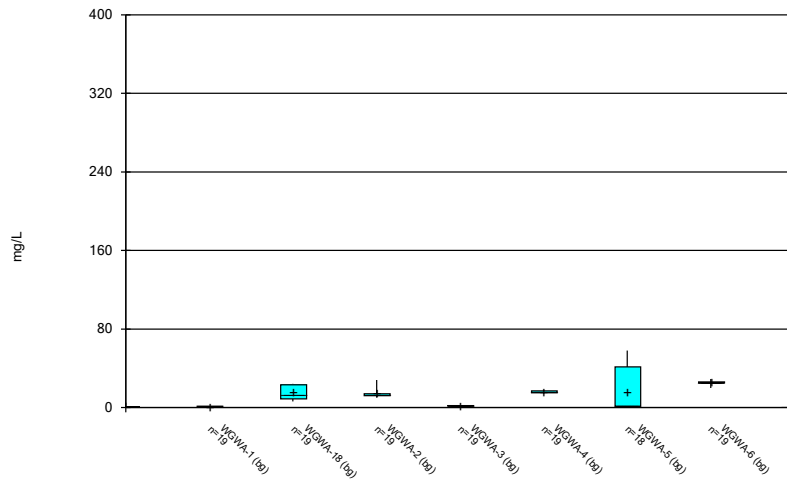
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Box & Whiskers Plot



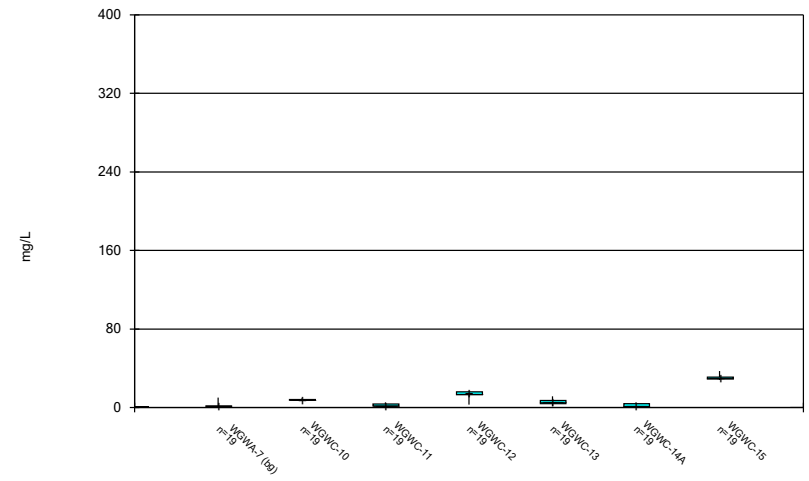
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Box & Whiskers Plot



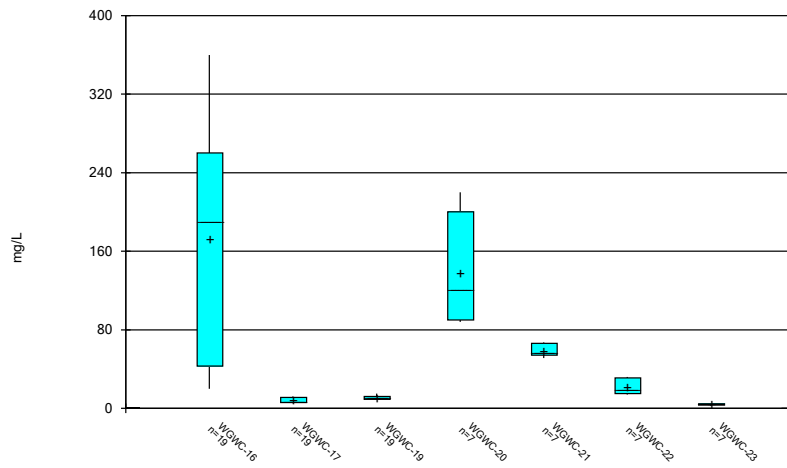
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Box & Whiskers Plot



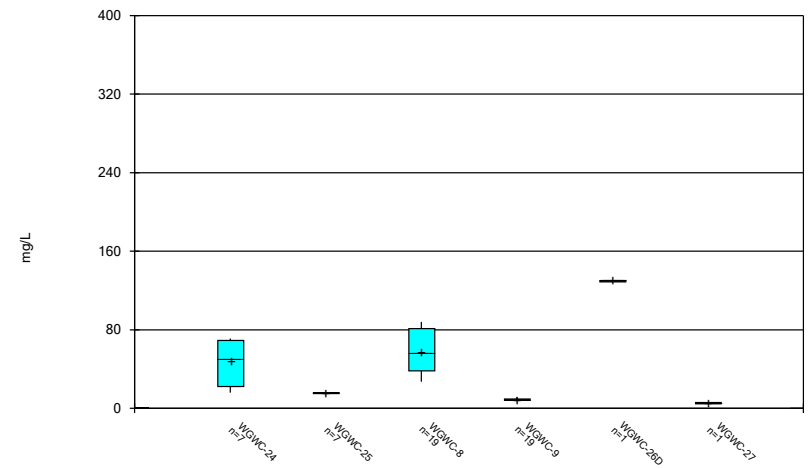
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Box & Whiskers Plot



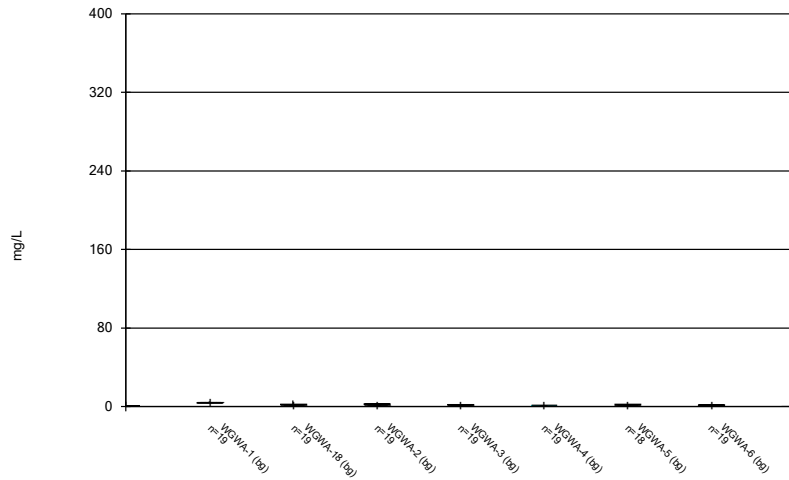
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



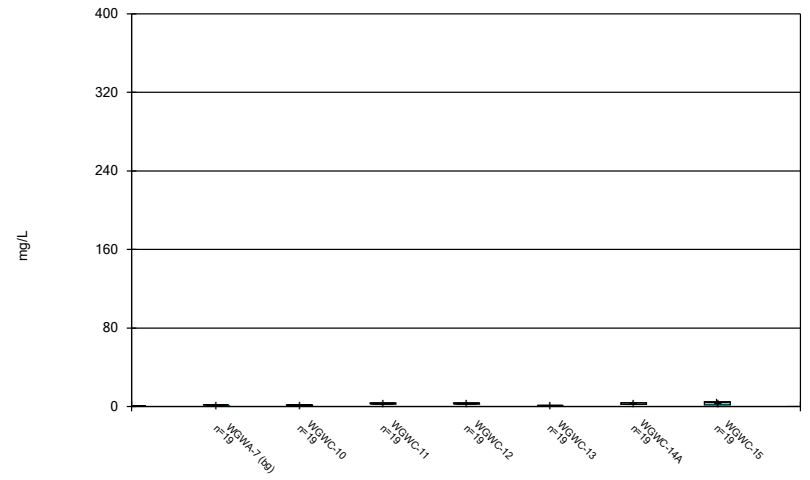
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Box & Whiskers Plot



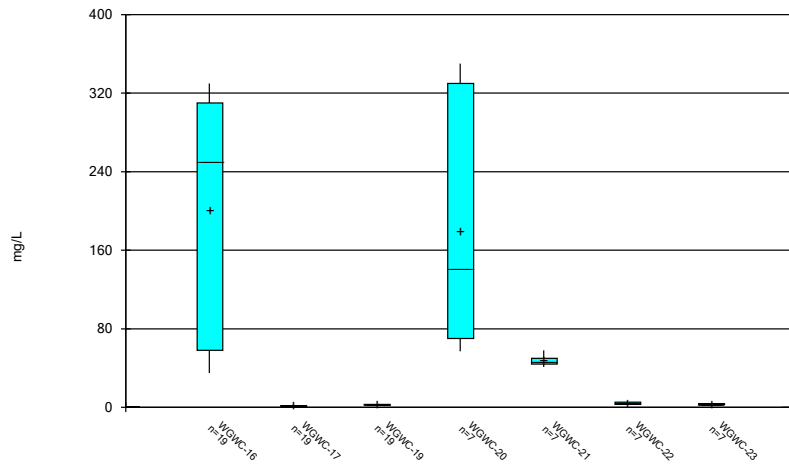
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Box & Whiskers Plot



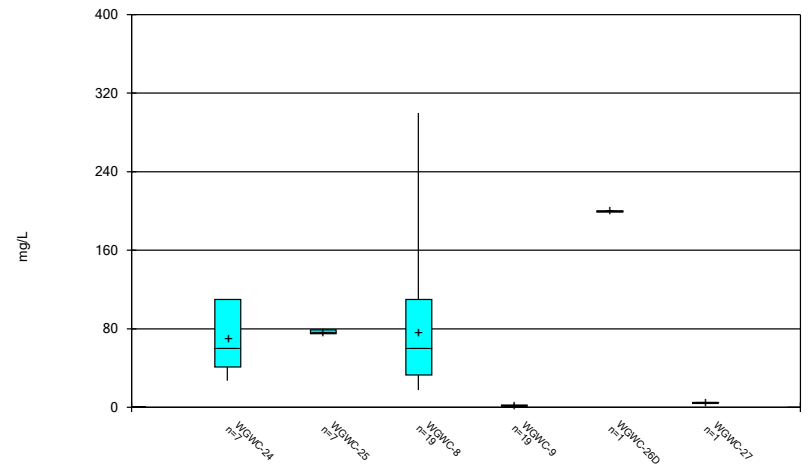
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Box & Whiskers Plot



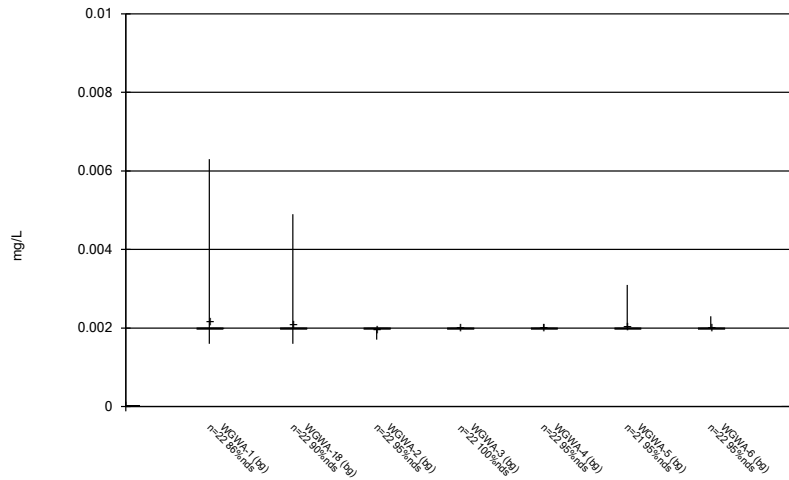
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Box & Whiskers Plot



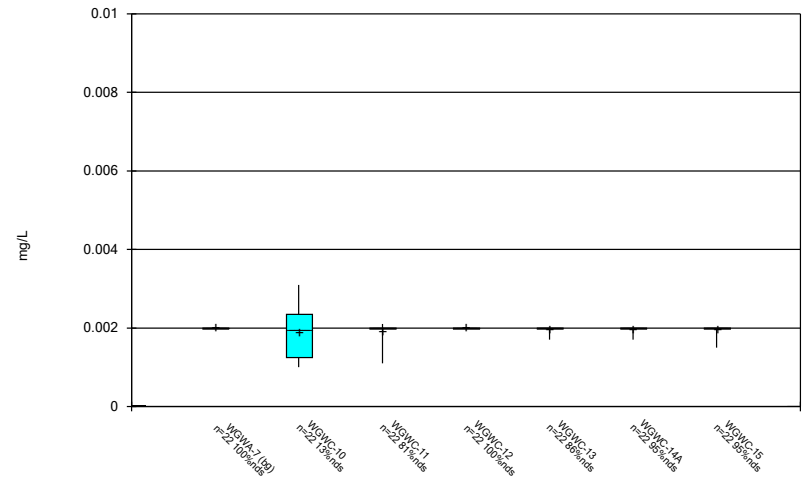
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Box & Whiskers Plot



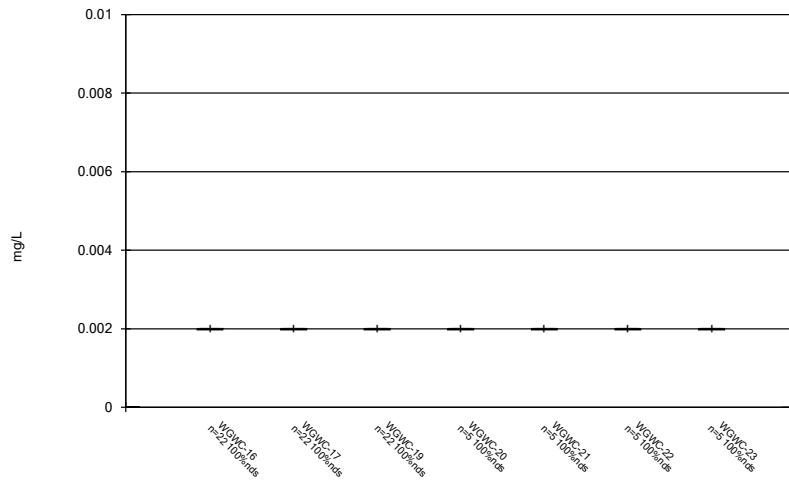
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Box & Whiskers Plot



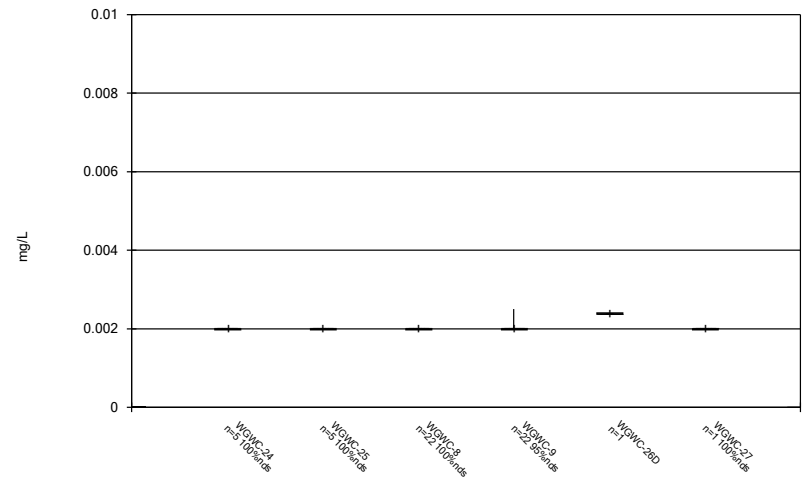
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



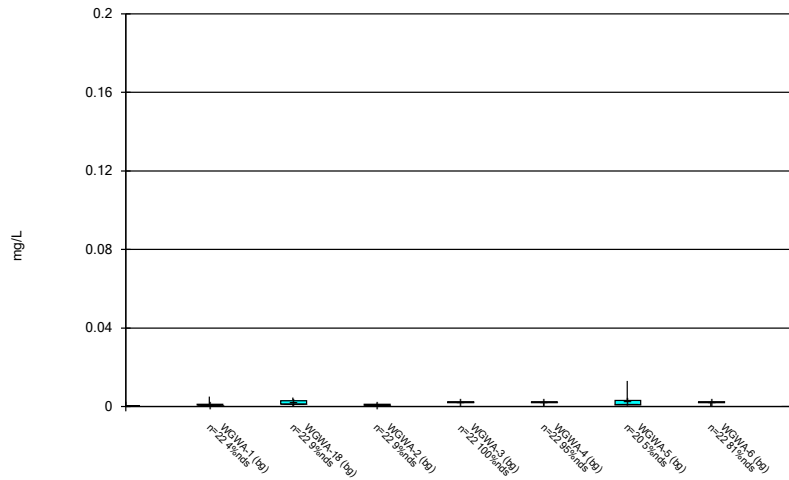
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Box & Whiskers Plot



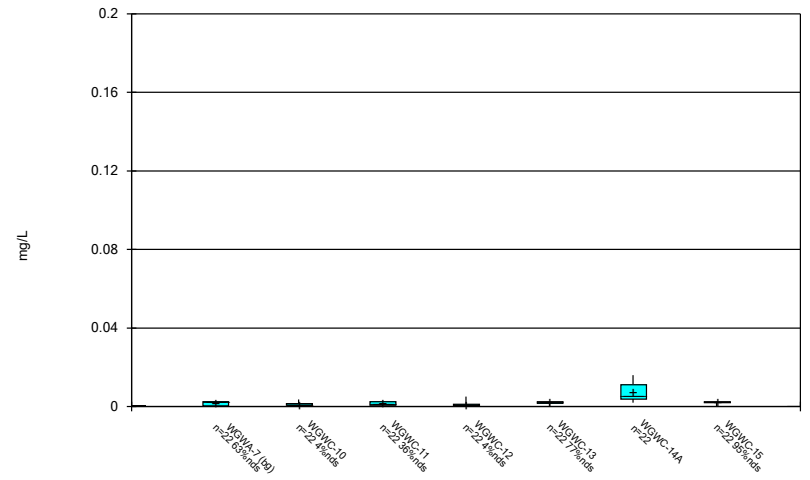
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Box & Whiskers Plot



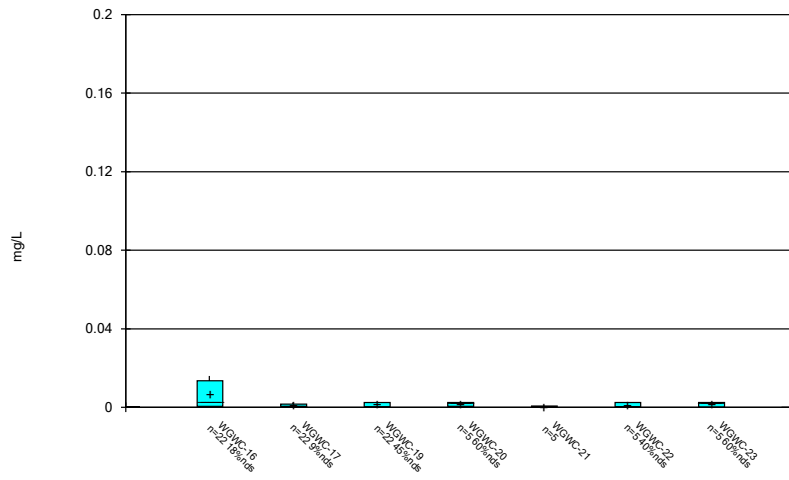
Constituent: Cobalt Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



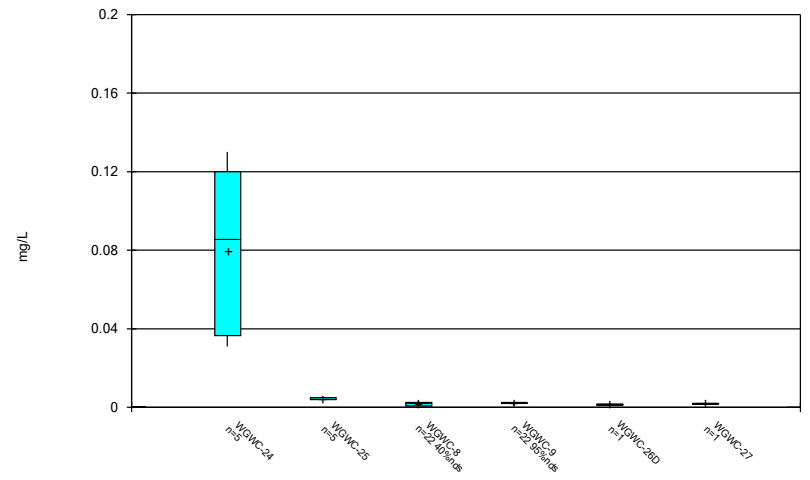
Constituent: Cobalt Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



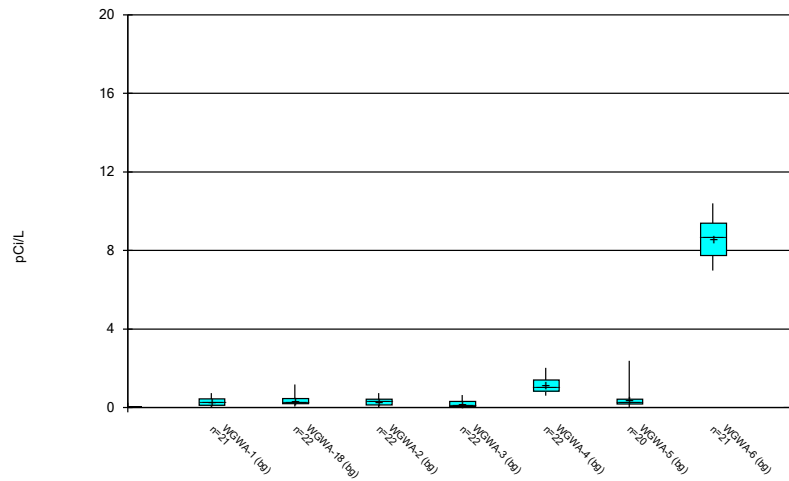
Constituent: Cobalt Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



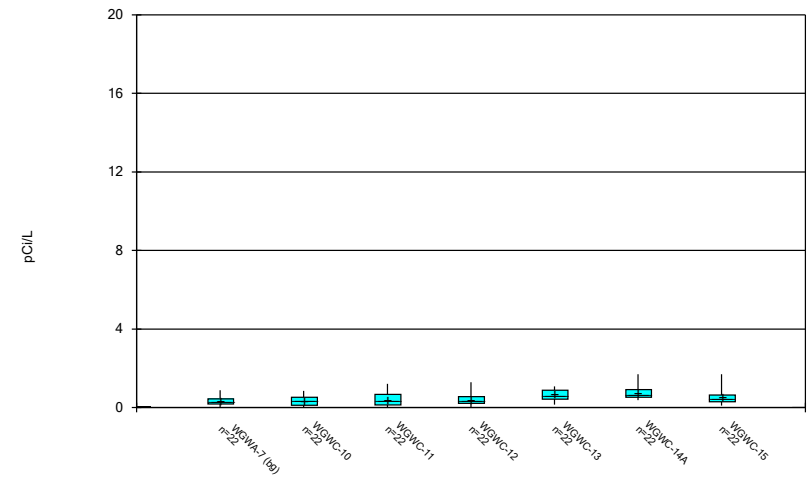
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



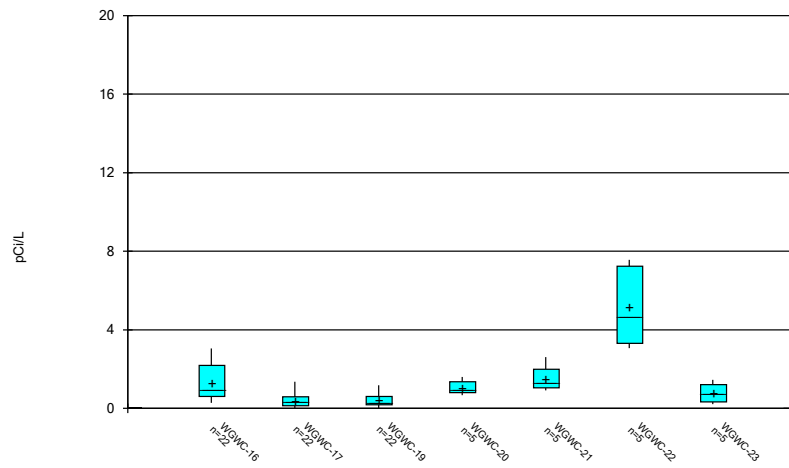
Constituent: Combined Radium 226 + 228 Analysis Run 1/5/2023 1:54 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



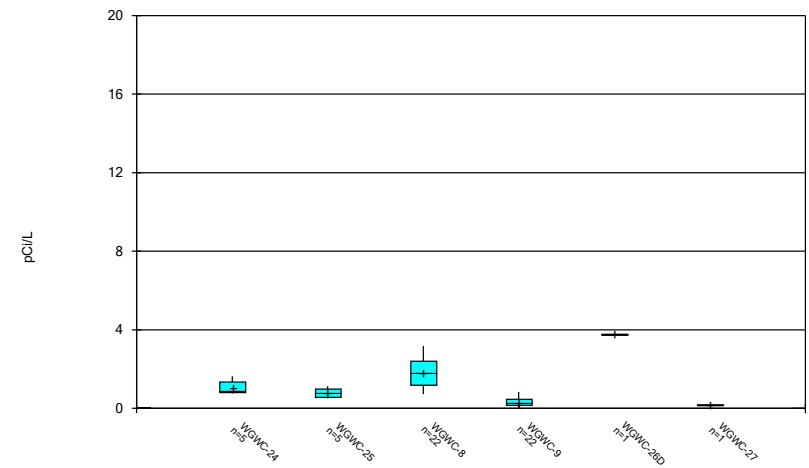
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



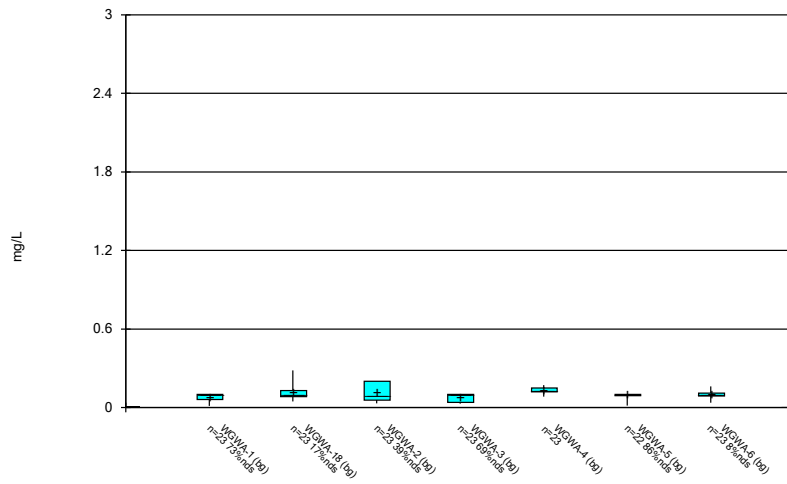
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



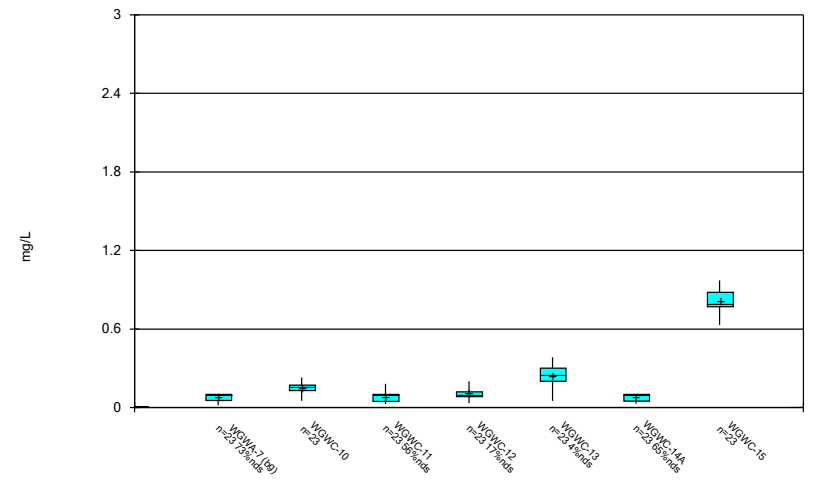
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



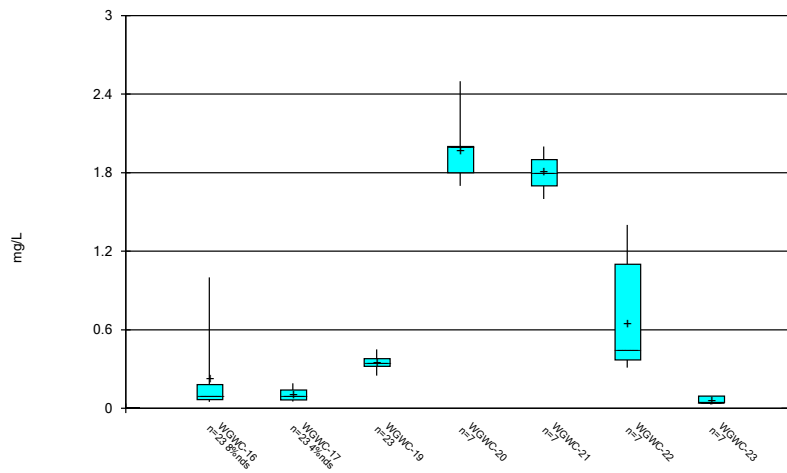
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



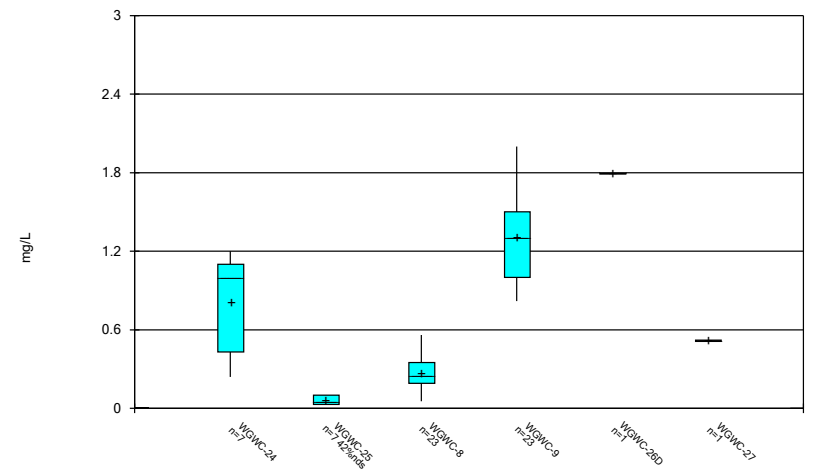
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Box & Whiskers Plot



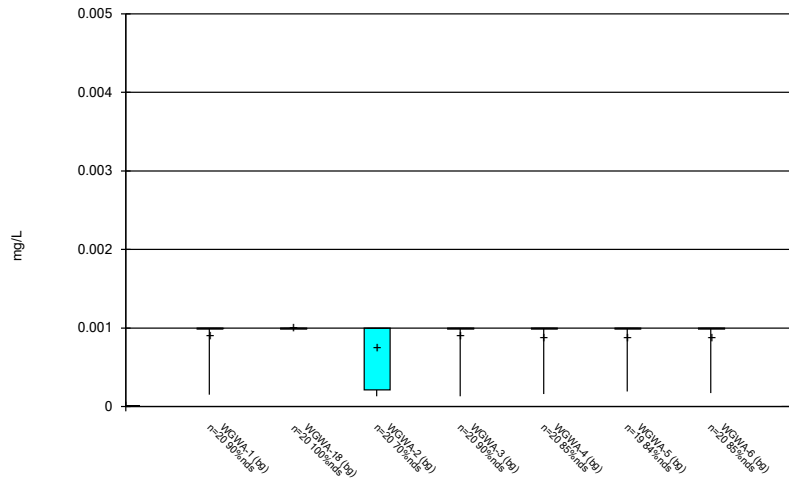
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



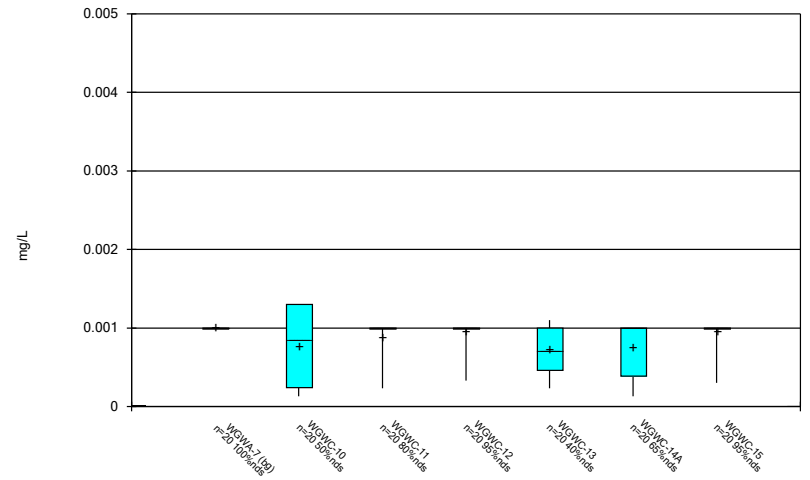
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Box & Whiskers Plot



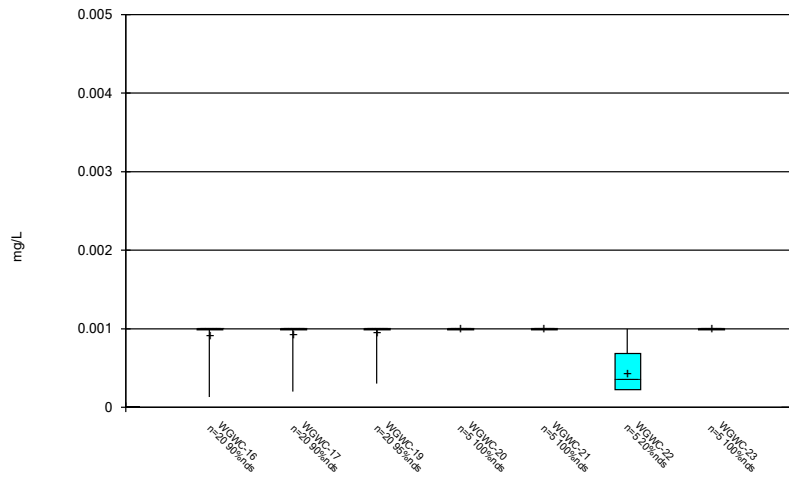
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Box & Whiskers Plot



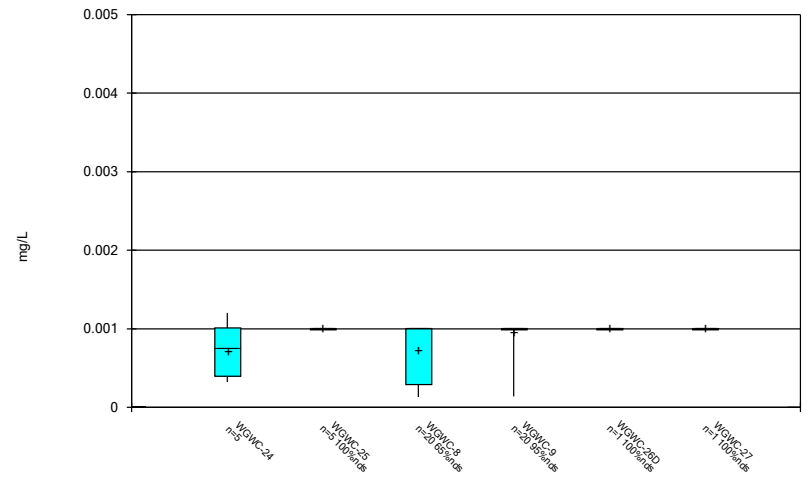
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



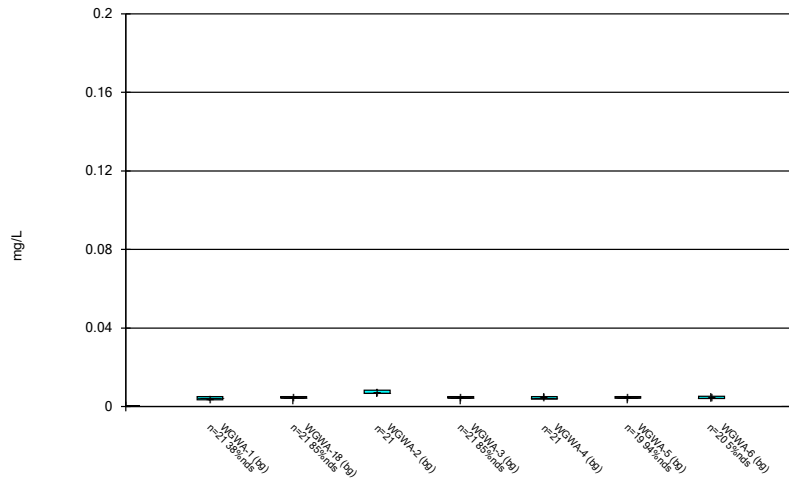
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



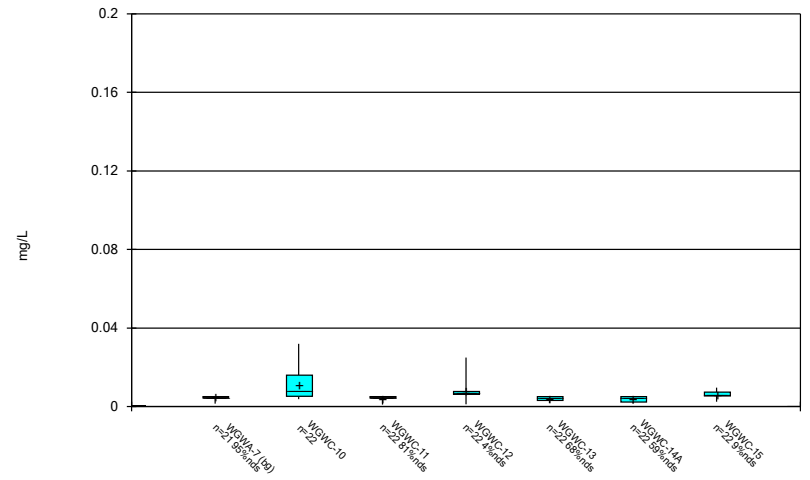
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



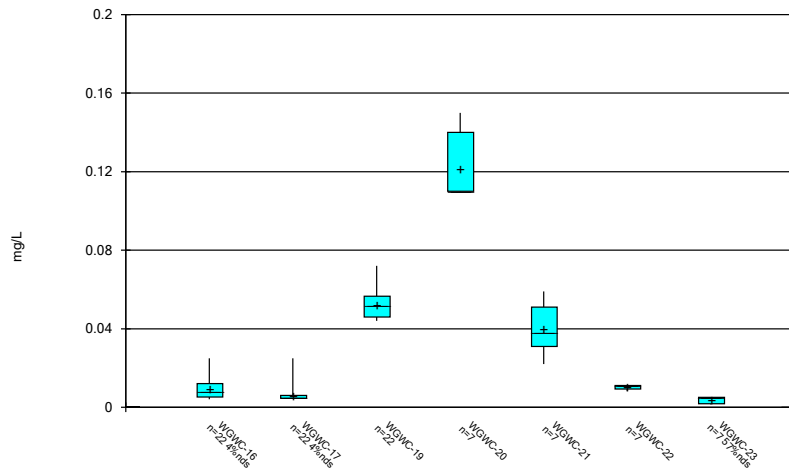
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Box & Whiskers Plot



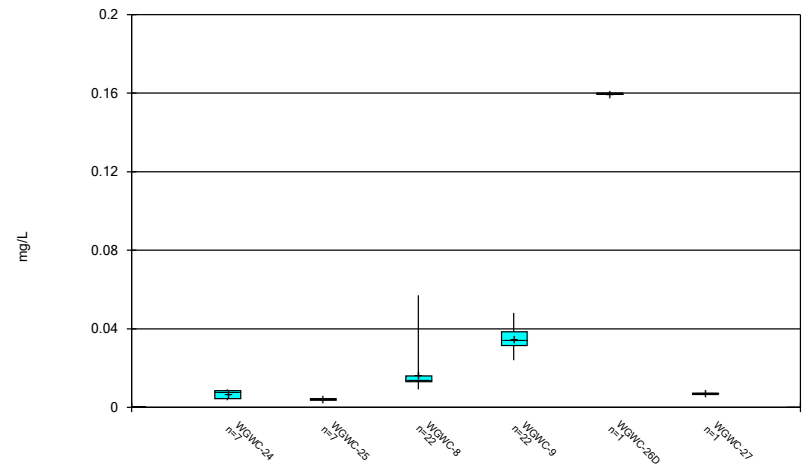
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



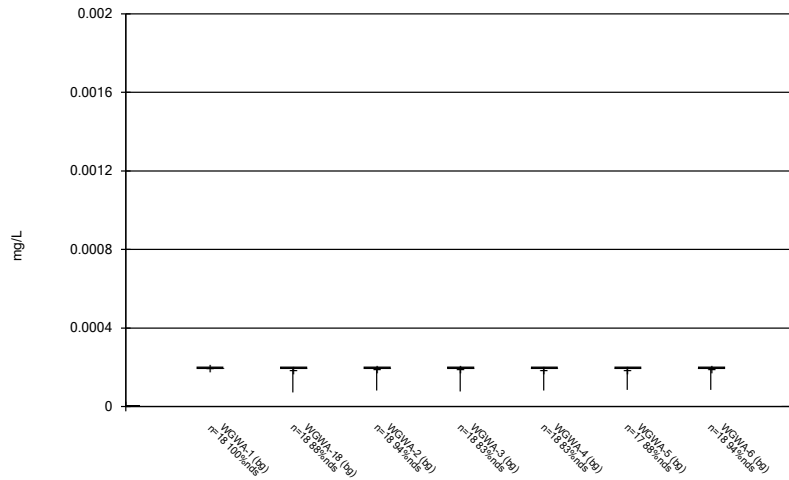
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Box & Whiskers Plot



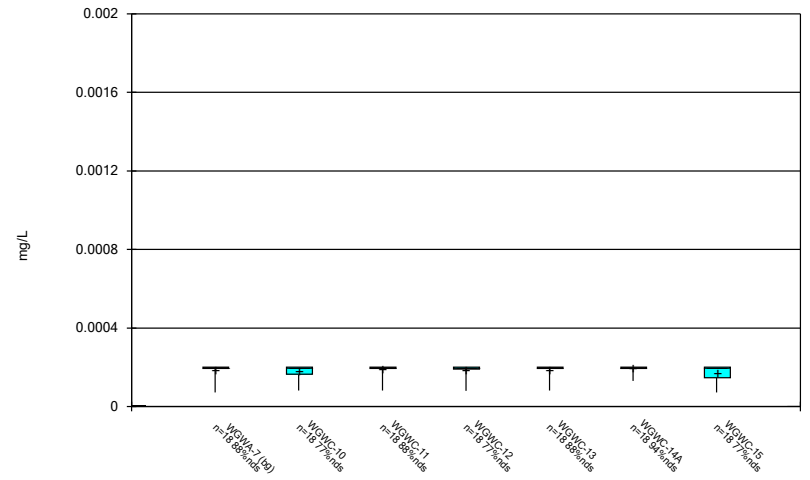
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



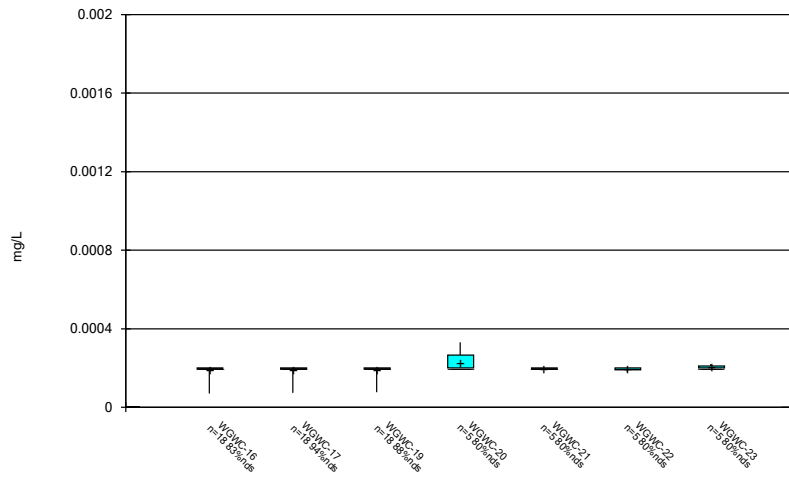
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



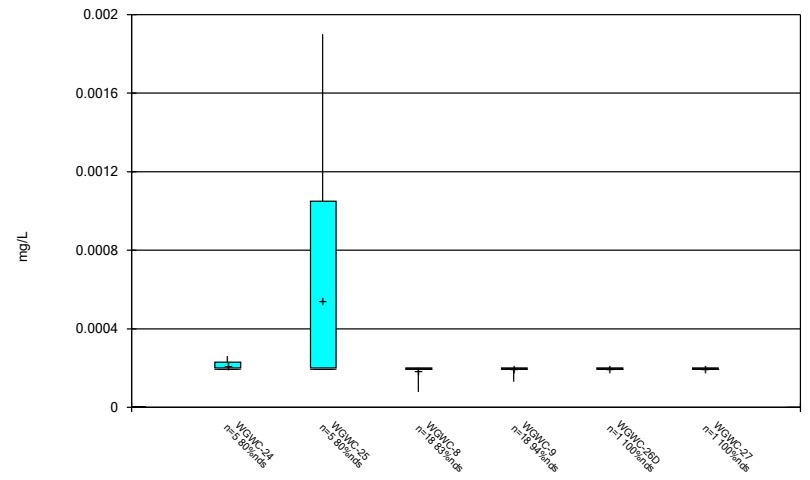
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



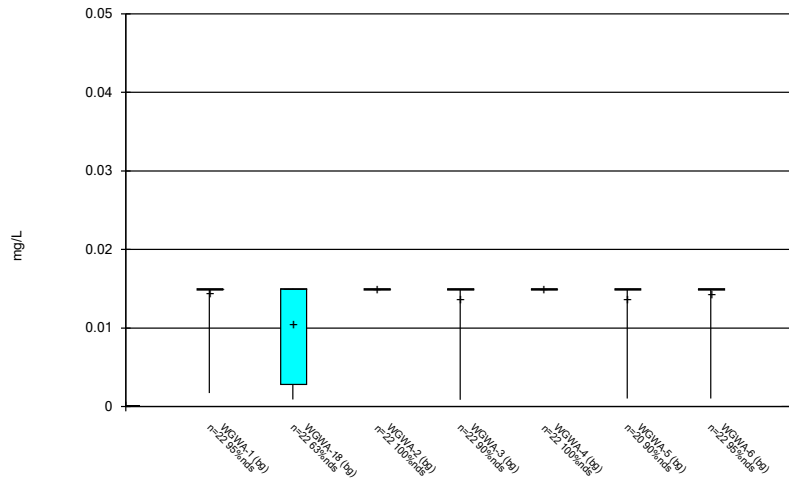
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



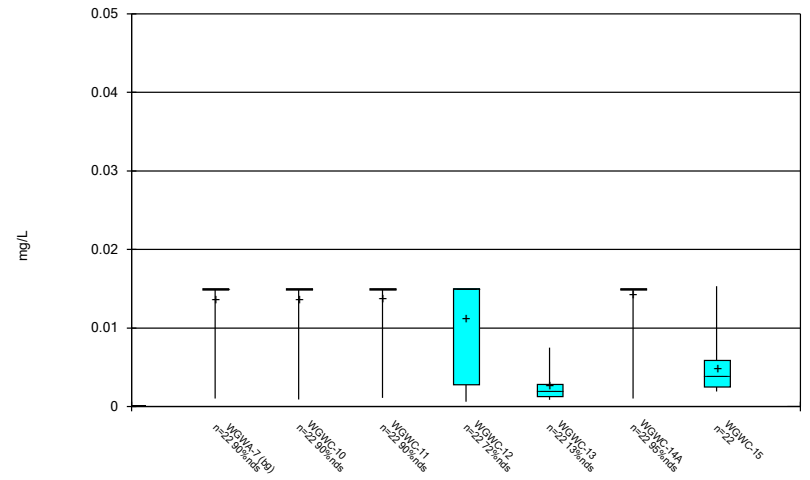
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



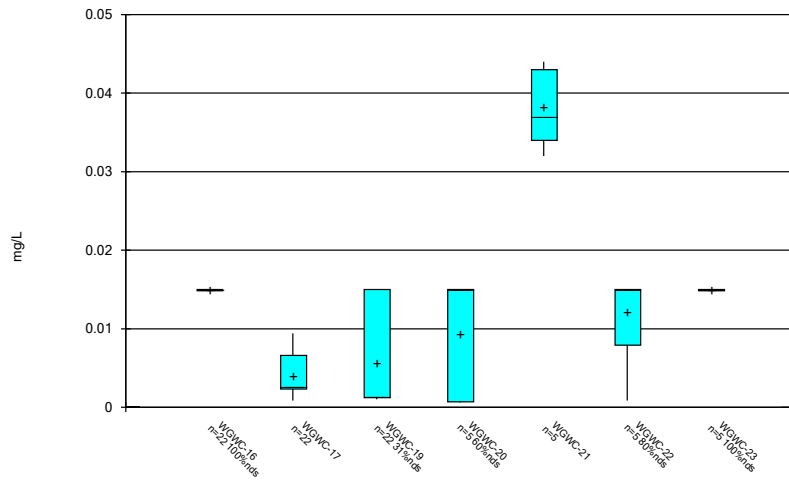
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



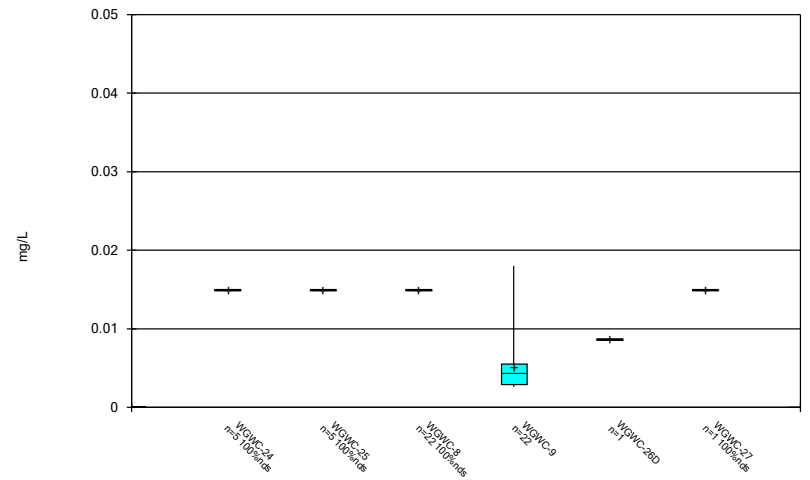
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



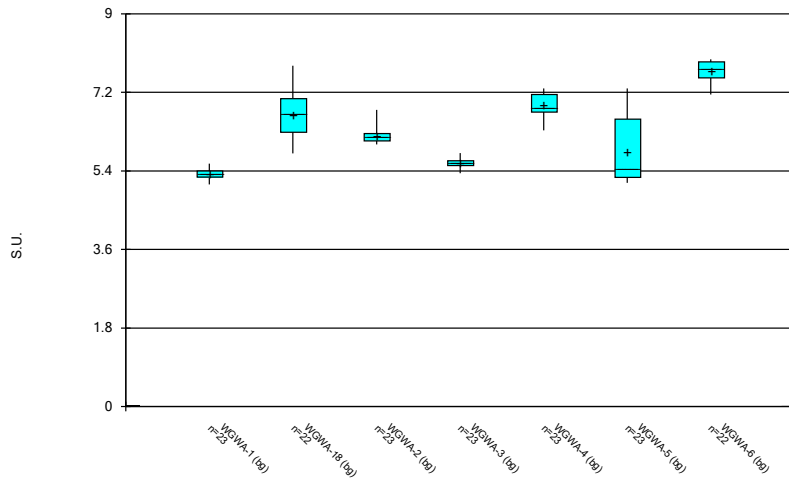
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



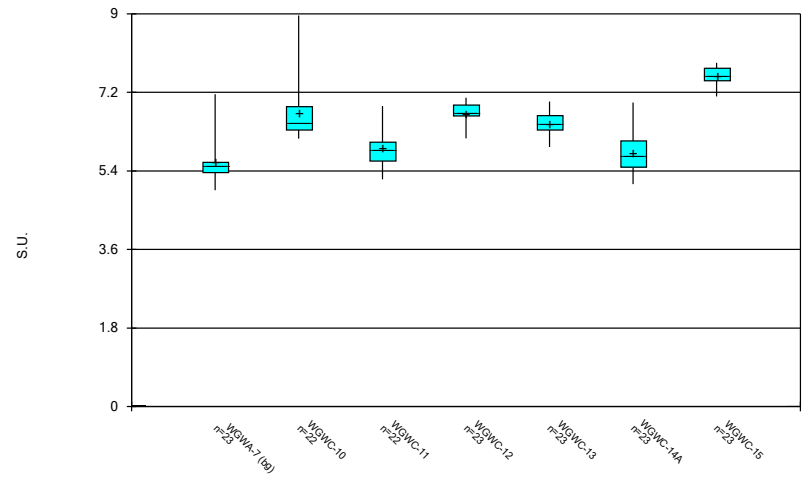
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



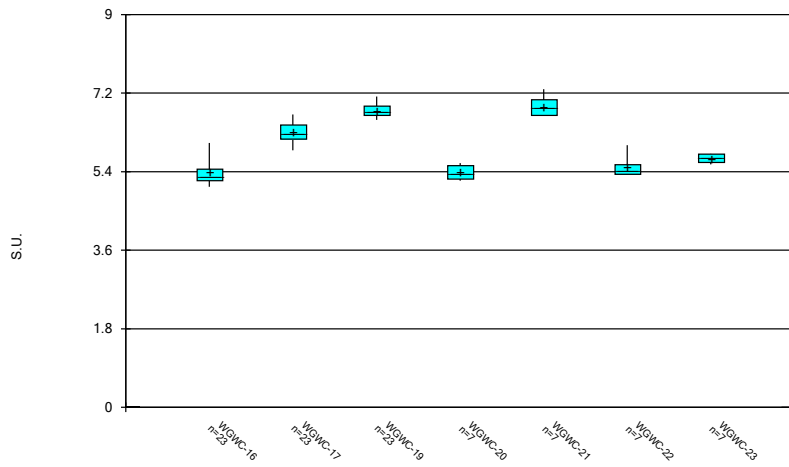
Constituent: pH, Field Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



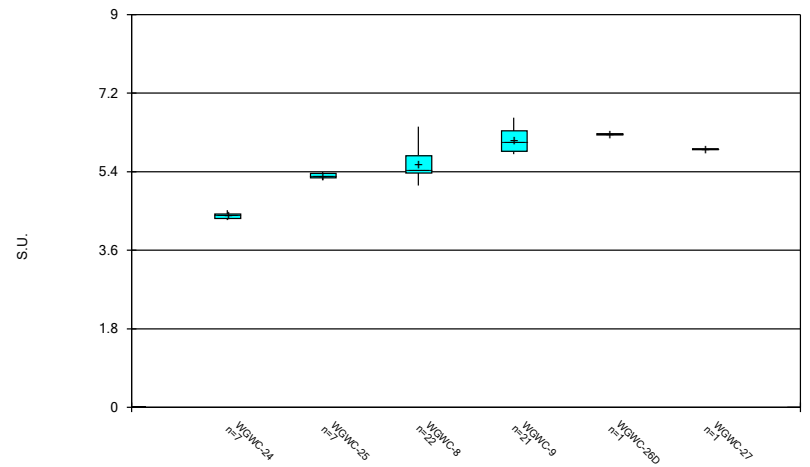
Constituent: pH, Field Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



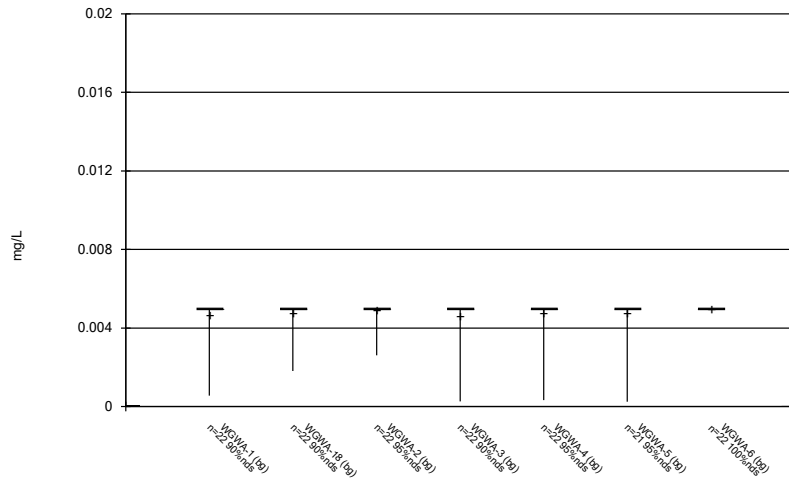
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



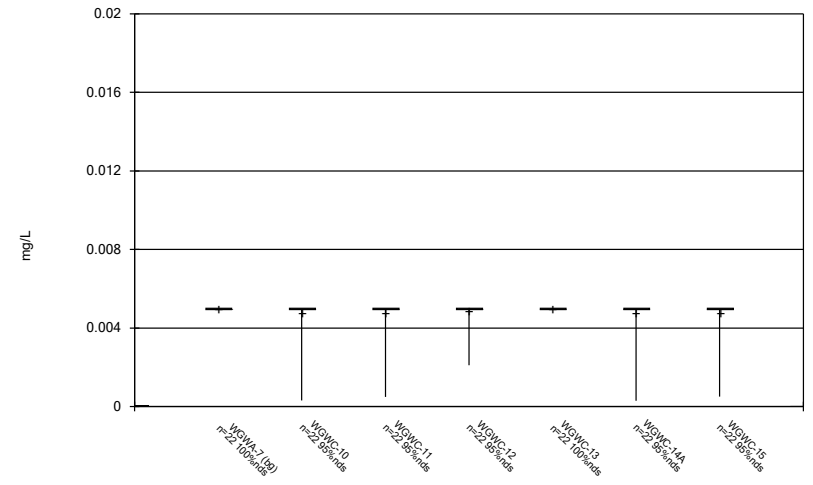
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



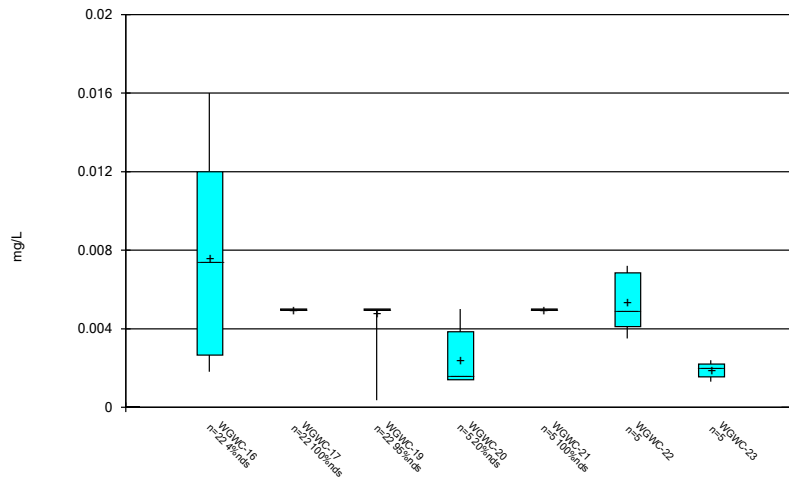
Constituent: Selenium Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



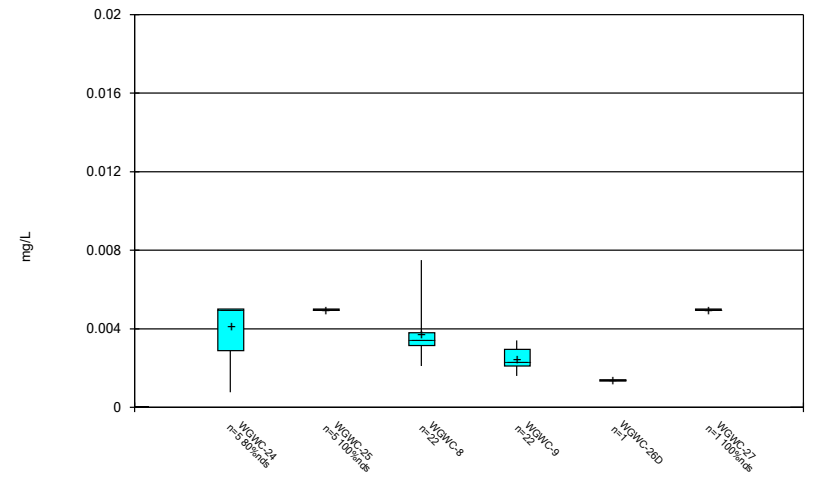
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



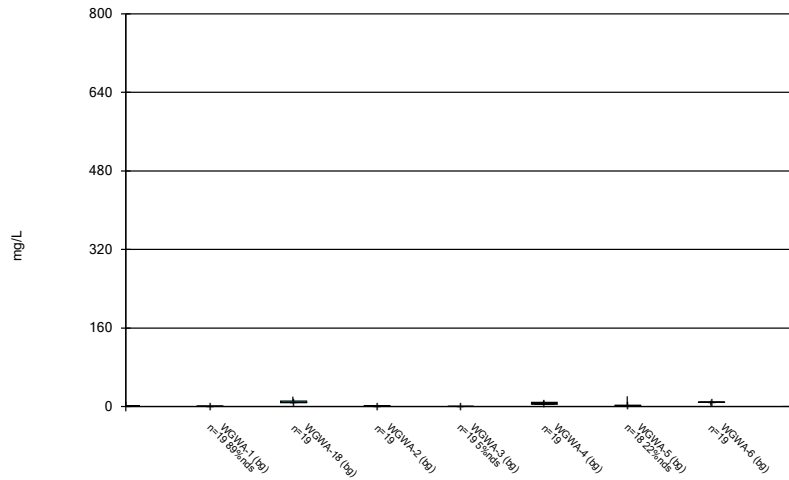
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



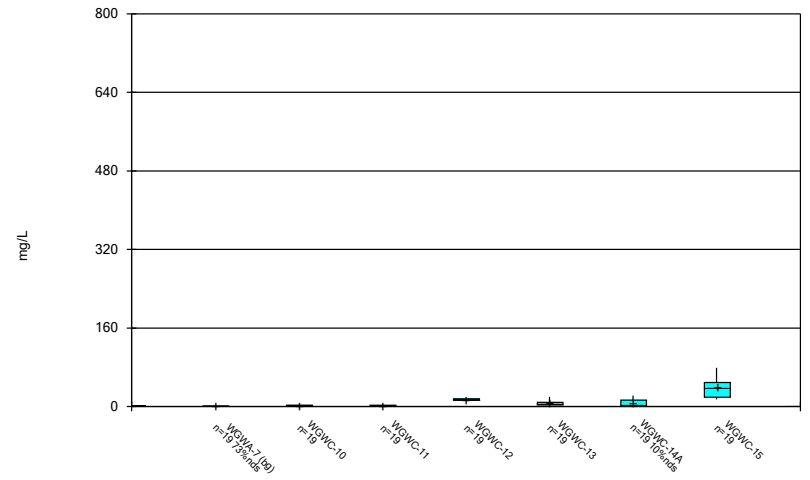
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



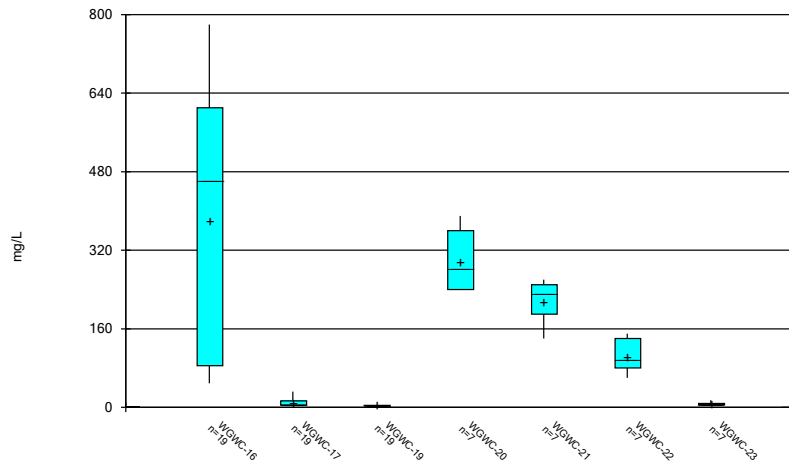
Constituent: Sulfate as SO4 Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



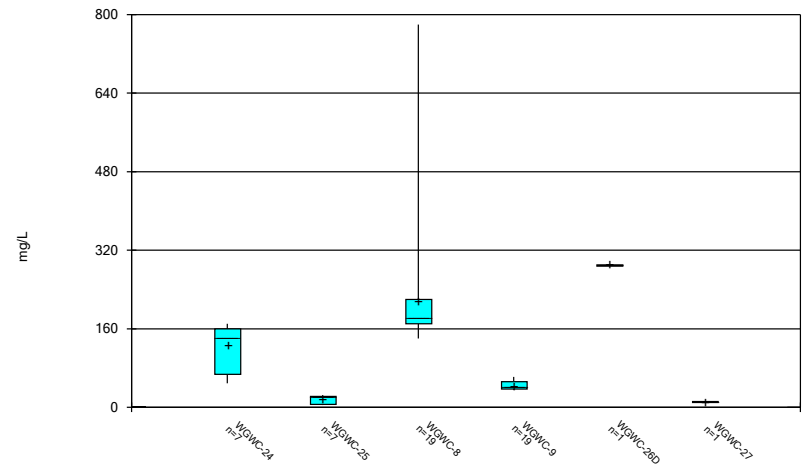
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



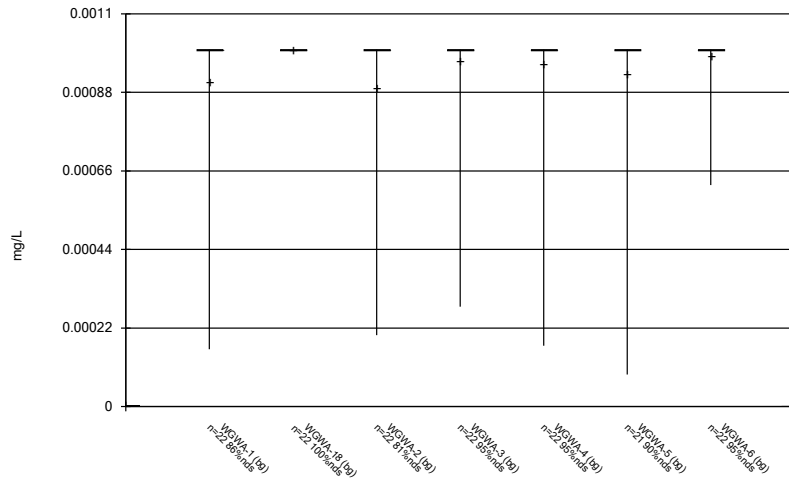
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



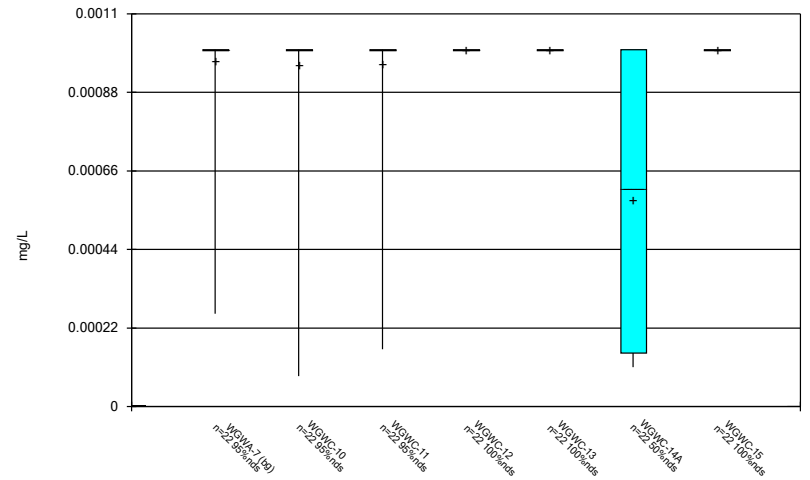
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



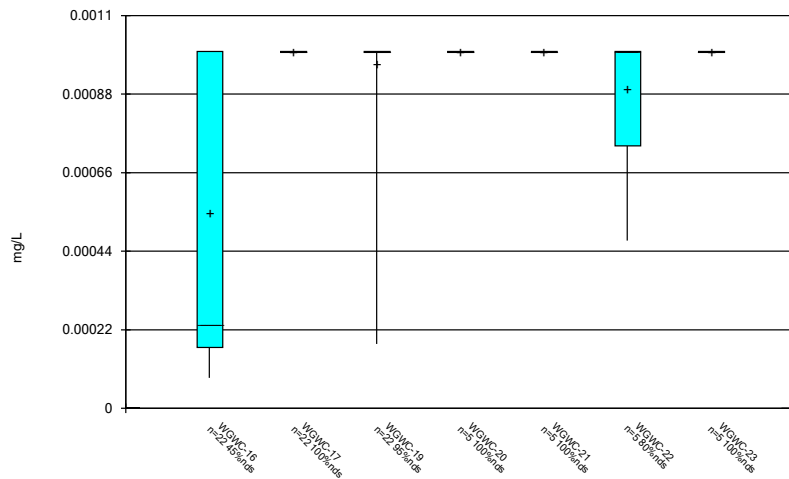
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



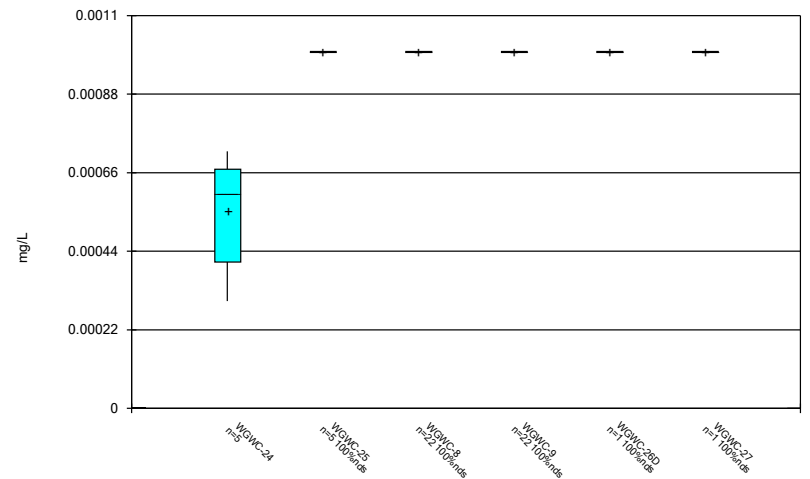
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



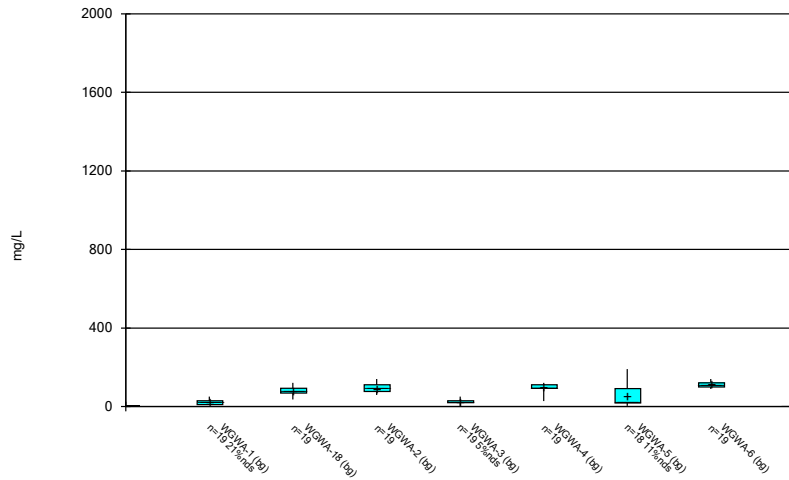
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



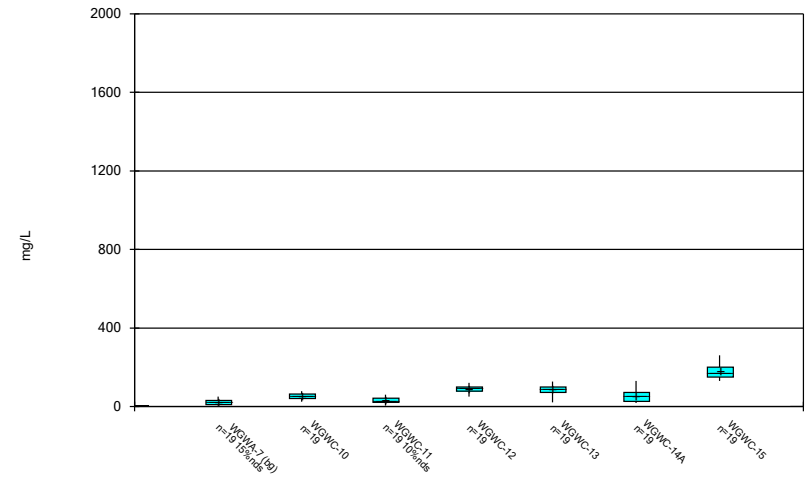
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



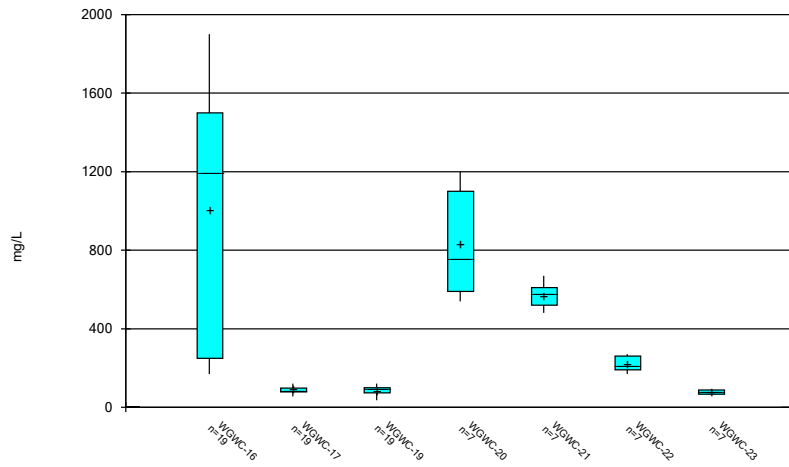
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



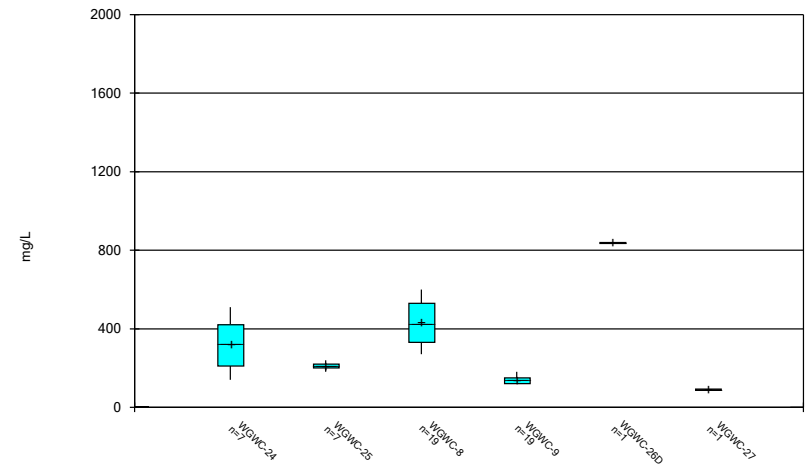
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/5/2023 1:55 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Outlier Summary

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:25 AM

Date	WGWA-5 Cobalt (mg/L)	WGWA-1 Combined Radium 226 + 228 (pCi/L)	WGWA-6 Combined Radium 226 + 228 (pCi/L)	WGWA-1 Lithium (mg/L)	WGWA-18 Lithium (mg/L)	WGWA-2 Lithium (mg/L)	WGWA-3 Lithium (mg/L)	WGWA-4 Lithium (mg/L)	WGWA-5 Lithium (mg/L)	WGWA-6 Lithium (mg/L)
5/17/2016			<0.005 (O)	<0.005 (O)	<0.05 (O)					
5/18/2016						<0.005 (O)	<0.05 (O)	<0.005 (O)	<0.005 (O)	
7/19/2016	7.25 (O)									
9/14/2016										
1/19/2017	0.064 (O)									
3/14/2017		0.589 (O)								
9/16/2019								0.028 (O)	0.032 (O)	

Date	WGWA-7 Lithium (mg/L)	WGWA-5 Molybdenum (mg/L)
5/17/2016		
5/18/2016	<0.005 (O)	
7/19/2016		
9/14/2016	0.016 (O)	
1/19/2017		
3/14/2017		
9/16/2019		

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/17/2022	0.73	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/16/2022	2.3	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/17/2022	0.55	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/16/2022	83	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/17/2022	35	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/16/2022	110	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/17/2022	0.68	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/17/2022	0.9	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/17/2022	49	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/16/2022	220	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/17/2022	50	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/16/2022	580	Yes	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-10	0.1	n/a	8/19/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	8/16/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	8/18/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	8/18/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	8/19/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	8/17/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/17/2022	0.73	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-17	0.1	n/a	8/16/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	8/17/2022	0.08ND	No	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/16/2022	2.3	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/17/2022	0.55	Yes	151	96.69	n/a	n/a	0.00008673	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-10	58	n/a	8/19/2022	7.3	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	8/16/2022	1.6	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	8/18/2022	13	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	8/18/2022	3.5	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	8/19/2022	0.64	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	8/17/2022	29	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	8/17/2022	20	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	8/16/2022	5.6	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	8/17/2022	9.8	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/16/2022	83	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-9	58	n/a	8/17/2022	9	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	8/19/2022	1.4	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	8/16/2022	3.5	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	8/18/2022	3	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	8/18/2022	0.98J	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	8/19/2022	2.1	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	8/17/2022	1.2	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/17/2022	35	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	8/16/2022	1.3	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	8/17/2022	2.8	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/16/2022	110	Yes	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	8/17/2022	3.2	No	151	0	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	8/19/2022	0.1	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	8/16/2022	0.1ND	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	8/18/2022	0.073J	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	8/18/2022	0.14	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	8/19/2022	0.1ND	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/17/2022	0.68	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	8/17/2022	0.062J	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	8/16/2022	0.06J	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/17/2022	0.28	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	8/16/2022	0.21	No	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/17/2022	0.9	Yes	183	45.9	n/a	n/a	0.0000588	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-10	7.96	4.96	8/19/2022	6.2	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	8/16/2022	5.56	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	8/18/2022	6.52	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	8/18/2022	6.15	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	8/19/2022	5.25	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	8/17/2022	7.54	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	8/17/2022	5.24	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	8/16/2022	6.02	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	8/17/2022	6.6	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	8/16/2022	5.4	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	8/17/2022	5.8	No	182	0	n/a	n/a	0.0001187	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	8/19/2022	1.6	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	8/16/2022	0.98J	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	8/18/2022	11	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	8/18/2022	1.7	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	8/19/2022	0.5ND	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	8/17/2022	14	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/17/2022	49	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	8/16/2022	3.4	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	8/17/2022	2.8	No	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/16/2022	220	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/17/2022	50	Yes	151	23.84	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	8/19/2022	63	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	8/16/2022	33	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2

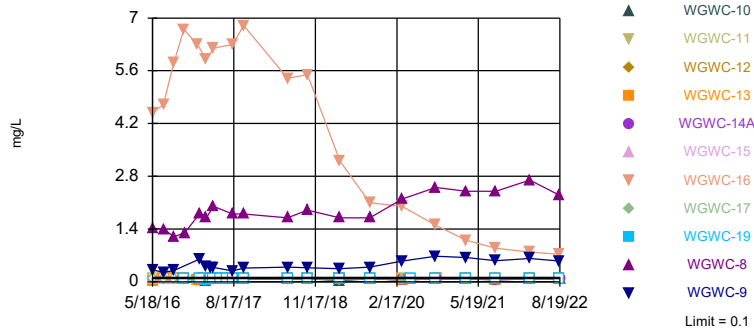
Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	8/18/2022	88	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	8/18/2022	89	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	8/19/2022	26	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	8/17/2022	140	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/17/2022	170	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	8/16/2022	81	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	8/17/2022	93	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/16/2022	580	Yes	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	8/17/2022	150	No	151	6.623	n/a	n/a	0.00008673	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric

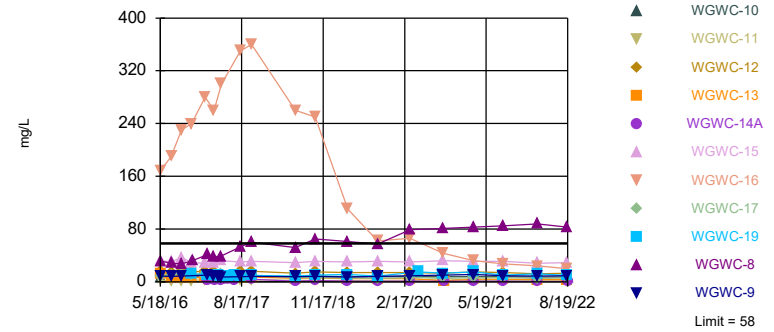


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 151 background values. 96.69% NDs. Annual per-constituent alpha = 0.001906. Individual comparison alpha = 0.00008673 (1 of 2). Comparing 11 points to limit.

Constituent: Boron, total Analysis Run 11/10/2022 2:03 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric

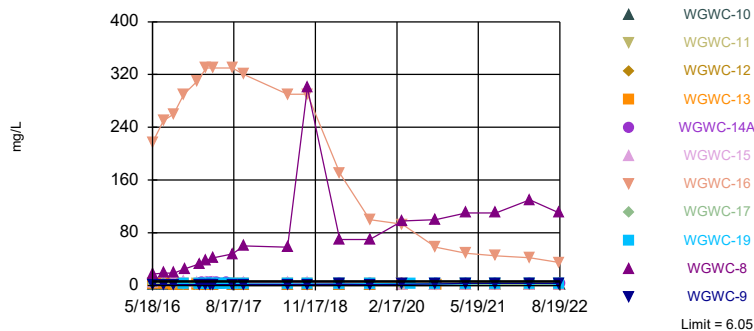


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 151 background values. Annual per-constituent alpha = 0.001906. Individual comparison alpha = 0.00008673 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium, total Analysis Run 11/10/2022 2:03 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit
Interwell Non-parametric

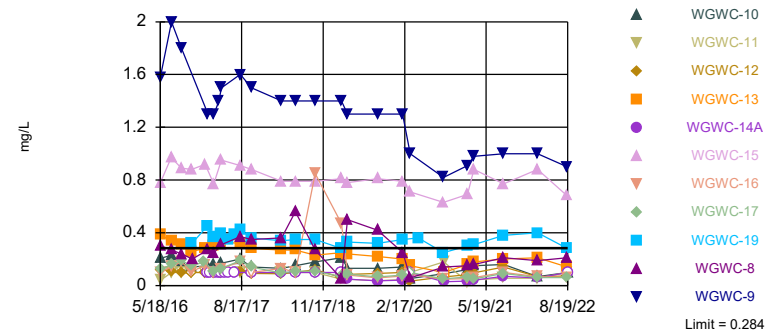


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 151 background values. Annual per-constituent alpha = 0.001906. Individual comparison alpha = 0.00008673 (1 of 2). Comparing 11 points to limit.

Constituent: Chloride, Total Analysis Run 11/10/2022 2:03 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-9

Prediction Limit
Interwell Non-parametric

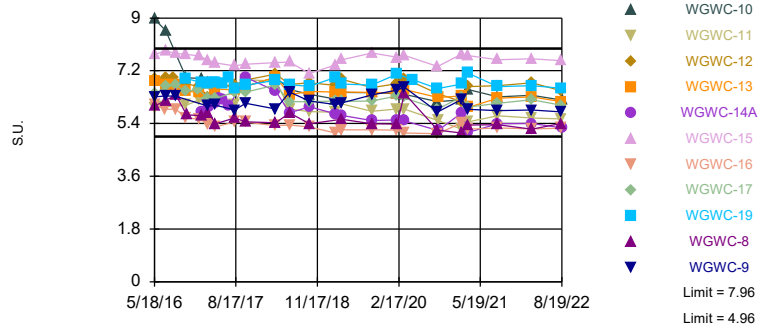


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 183 background values. 45.9% NDs. Annual per-constituent alpha = 0.001293. Individual comparison alpha = 0.0000588 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride, total Analysis Run 11/10/2022 2:03 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

Prediction Limit
Interwell Non-parametric



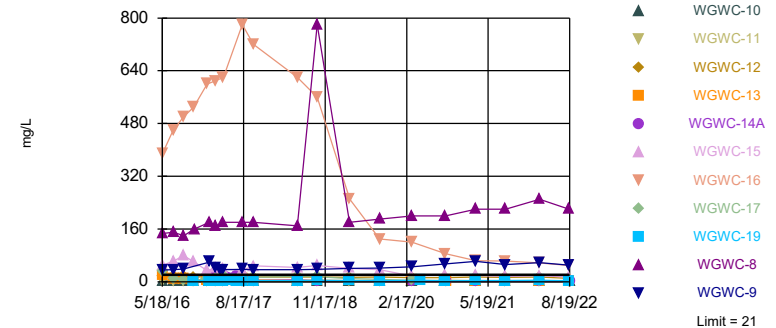
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 182 background values. Annual per-constituent alpha = 0.002611. Individual comparison alpha = 0.0001187 (1 of 2). Comparing 11 points to limit.

Constituent: pH, Field Analysis Run 11/10/2022 2:03 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric



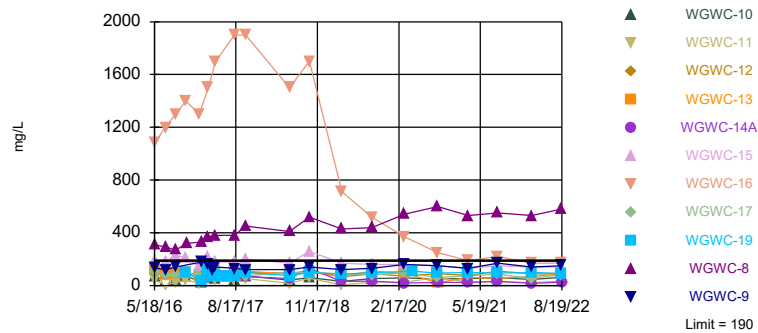
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 151 background values. 23.84% NDs. Annual per-constituent alpha = 0.001906. Individual comparison alpha = 0.00008673 (1 of 2). Comparing 11 points to limit.

Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:03 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 151 background values. 6.623% NDs. Annual per-constituent alpha = 0.001906. Individual comparison alpha = 0.00008673 (1 of 2). Comparing 11 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:03 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<0.08	<0.08	<0.08						
5/18/2016				<0.08	<0.08	<0.08	<0.08	4.48	<0.08
5/19/2016									
7/19/2016	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08	4.7	<0.08
7/20/2016				<0.08					
9/13/2016	<0.08	<0.08	<0.08		<0.08		<0.08		
9/14/2016				<0.08		<0.08		5.8	<0.08
9/15/2016									
11/9/2016	<0.08	<0.08	<0.08				<0.08		
11/10/2016					<0.08	<0.08		6.7	
11/11/2016				<0.08					
11/14/2016									
1/17/2017	<0.08	<0.08							
1/18/2017					<0.08		<0.08		
1/19/2017			<0.08						<0.08
1/20/2017									
1/24/2017						<0.08		6.3	
1/27/2017									
2/6/2017				<0.08					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.08	<0.08							
3/14/2017			<0.08		<0.08	<0.08	<0.08		<0.08
3/15/2017				0.032 (J)				5.9	
3/17/2017									
4/11/2017									
4/24/2017	<0.08	<0.08							
4/25/2017			<0.08		<0.08	<0.08	<0.08	6.2	<0.08
4/26/2017				<0.08					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.08	<0.08	<0.08		<0.08		<0.08		
8/9/2017						<0.08		6.3	<0.08
8/10/2017				<0.08					
10/10/2017	<0.08	<0.08							
10/11/2017			<0.08		<0.08	<0.08	<0.08	6.8	<0.08
10/12/2017				<0.08					
6/13/2018	<0.08		<0.08				<0.08		<0.08
6/14/2018		<0.08		<0.08	<0.08	<0.08		5.4	
9/24/2018		<0.08							
9/27/2018	<0.08								
9/28/2018			<0.08						
10/2/2018							<0.08		
10/3/2018					<0.08	<0.08			<0.08
10/4/2018				<0.08				5.5	
4/1/2019	<0.08	<0.08							
4/2/2019			<0.08		<0.08		<0.08		<0.08
4/3/2019									
4/4/2019				0.024 (J)		<0.08		3.2	
9/16/2019	<0.08						<0.08		<0.08

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		<0.08	<0.08						
9/18/2019					<0.08	<0.08		2.1	
9/19/2019				<0.08					
3/16/2020	<0.08	0.048 (J)							
3/17/2020			<0.08		<0.08		<0.08		<0.08
3/18/2020				0.049 (J)		0.071 (J)		2	
3/19/2020									
5/4/2020									
9/21/2020		<0.08							
9/22/2020	<0.08		<0.08		<0.08		<0.08		<0.08
9/23/2020				<0.08		<0.08		1.5	
9/24/2020									
3/10/2021		0.039 (J)	<0.08		<0.08				<0.08
3/11/2021	<0.08			<0.08			<0.08	1.1	
3/12/2021						<0.08			
8/23/2021		<0.08							
8/24/2021	<0.08				<0.08		<0.08		<0.08
8/25/2021			0.1					0.89	
8/26/2021				<0.08		<0.08			
2/28/2022									
3/1/2022	<0.08	<0.08					<0.08		<0.08
3/3/2022			0.1	<0.08	<0.08	<0.08		0.79	
3/4/2022									
8/15/2022	<0.08	0.066 (J)					<0.08		<0.08
8/16/2022			<0.08		<0.08				
8/17/2022						<0.08		0.73	
8/18/2022									
8/19/2022				<0.08					

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.08
2/9/2017	
2/23/2017	<0.08
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.08
4/11/2017	<0.08
4/24/2017	
4/25/2017	
4/26/2017	<0.08
5/17/2017	<0.08
6/7/2017	<0.08
7/11/2017	<0.08
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.08
10/12/2017	
6/13/2018	
6/14/2018	<0.08
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.08
4/1/2019	
4/2/2019	
4/3/2019	<0.08
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	<0.08
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.039 (J)
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.08
3/10/2021	
3/11/2021	<0.08
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.043 (J)
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	<0.08
3/4/2022	
8/15/2022	
8/16/2022	
8/17/2022	
8/18/2022	
8/19/2022	<0.08

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	0.927	12.2	23.7						
5/18/2016				7.17	1.36	32.5	27	168	1.7
5/19/2016									
7/19/2016	1	13	23		0.88	30	23	190	1.5
7/20/2016				7					
9/13/2016	0.44	13	23		0.93		25		
9/14/2016				7.7		37		230	52
9/15/2016									
11/9/2016	1.1	19	6.7				25		
11/10/2016					6.1	29		240	
11/11/2016				8.2					
11/14/2016									
1/17/2017	1.4	28							
1/18/2017					10		26		
1/19/2017			8.5						13
1/20/2017									
1/24/2017						28		280	
1/27/2017									
2/6/2017				9.1					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	1.1	14							
3/14/2017			13		1.3	29	20		1.6
3/15/2017				9				260	
3/17/2017									
4/11/2017									
4/24/2017	1.1	12							
4/25/2017			23		1.9	32	28	300	1.5
4/26/2017				8.1					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	1.1	18	24		4.8		26		
8/9/2017						30		350	1.3
8/10/2017				8.1					
10/10/2017	1.2	21							
10/11/2017			23		0.93	31	29	360	1.5
10/12/2017				8.6					
6/13/2018	1.1		11				25		1.2
6/14/2018		12		7.7	0.94	29		260	
9/24/2018		11							
9/27/2018	1.2								
9/28/2018			11						
10/2/2018							26		
10/3/2018					1.2	31			1.4
10/4/2018				8.5				250	
4/1/2019	1	12							
4/2/2019			20		1.1		25		1.1
4/3/2019									
4/4/2019				7.9		30		110	
9/16/2019	1.3						25		36

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		13	10						
9/18/2019					1.5	31		62	
9/19/2019				7.5					
3/16/2020	1.1	10							
3/17/2020			10		0.82		26		1.4
3/18/2020				7.5		30		66	
3/19/2020									
5/4/2020									
9/21/2020		13							
9/22/2020	1.2		19		0.89		25		58
9/23/2020				7.7		32		43	
9/24/2020									
3/10/2021		11	7.7		0.89				1.3
3/11/2021	1.3			7.9			26	32	
3/12/2021						31			
8/23/2021		13							
8/24/2021	1.2				1.7		26		47
8/25/2021			16					27	
8/26/2021				7.6		31			
2/28/2022									
3/1/2022	1.1	13					22		2.1
3/3/2022			6.1	7.1	1.4	28		24	
3/4/2022									
8/15/2022	1.2	12					24		51
8/16/2022			8.8		0.94				
8/17/2022						29		20	
8/18/2022									
8/19/2022				7.3					

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	3.2
2/9/2017	
2/23/2017	4.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	2.4
4/11/2017	4.1
4/24/2017	
4/25/2017	
4/26/2017	2.5
5/17/2017	5.2
6/7/2017	5.2
7/11/2017	2.3
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.8
10/12/2017	
6/13/2018	
6/14/2018	1.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2
4/1/2019	
4/2/2019	
4/3/2019	0.84
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	0.85
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.89
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.99
3/10/2021	
3/11/2021	0.79
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.7
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	0.65
3/4/2022	
8/15/2022	
8/16/2022	
8/17/2022	
8/18/2022	
8/19/2022	0.64

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	3.8	2.5	6.05						
5/18/2016				1.45	2.06	4.59	1.58	217	2.14
5/19/2016									
7/19/2016	3.9	2.6	4		2.1	5.9	1.6	250	2.4
7/20/2016				1.6					
9/13/2016	3.6	2.4	3.1		2		1.4		
9/14/2016				1.5		7.9		260	2.1
9/15/2016									
11/9/2016	3.9	2.3	2.3				1.5		
11/10/2016					1.8	6.5		290	
11/11/2016				1.5					
11/14/2016									
1/17/2017	3.8	2.3							
1/18/2017					1.8		1.5		
1/19/2017			2						1.8
1/20/2017									
1/24/2017						4.1		310	
1/27/2017									
2/6/2017				1.4					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	3.4	2.2							
3/14/2017			1.9		1.8	4.4	2.5		2
3/15/2017				1.4				330	
3/17/2017									
4/11/2017									
4/24/2017	3.4	2.2							
4/25/2017			1.9		1.8	4	1.3	330	1.8
4/26/2017				1.3					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	3.6	2.3	2		1.9		1.4		
8/9/2017						3.6		330	1.9
8/10/2017				1.4					
10/10/2017	3.6	2.5							
10/11/2017			1.9		1.8	5	1.3	320	2.1
10/12/2017				1.3					
6/13/2018	3.8		2				1.4		1.7
6/14/2018		2.3		1.3	1.7	4.3		290	
9/24/2018		2.4							
9/27/2018	4								
9/28/2018			2.1						
10/2/2018							1.4		
10/3/2018					1.8	4.8			1.8
10/4/2018				1.3				290	
4/1/2019	4	2.4							
4/2/2019			2.6		1.9		1.5		1.7
4/3/2019									
4/4/2019				1.4		3.7		170	
9/16/2019	4						1.5		1.8

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		2.4	2						
9/18/2019					2	3.2		100	
9/19/2019				1.5					
3/16/2020	4.3	2.7							
3/17/2020			2.3		2.2		1.7		1.6
3/18/2020				1.5		1.7		93	
3/19/2020									
5/4/2020									
9/21/2020		2.5							
9/22/2020	4		2.1		1.8		1.4		1.5
9/23/2020				1.3		1.5		58	
9/24/2020									
3/10/2021		2.6	1.9		1.9				1.8
3/11/2021	4.5			1.7			1.5	49	
3/12/2021						1.6			
8/23/2021		3.3							
8/24/2021	5.1				1.9		1.8		2.1
8/25/2021			2.3					45	
8/26/2021				1.6		1.4			
2/28/2022									
3/1/2022	4.1	2.7					1.5		1.5
3/3/2022			2	1.6	2.1	1.4		42	
3/4/2022									
8/15/2022	4	2.7					1.5		1.5
8/16/2022			1.9		1.9				
8/17/2022						1.2		35	
8/18/2022									
8/19/2022				1.4					

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	2.5
2/9/2017	
2/23/2017	4.3
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	4.8
4/11/2017	3.8
4/24/2017	
4/25/2017	
4/26/2017	4.8
5/17/2017	3.9
6/7/2017	3.2
7/11/2017	4.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	2.2
10/12/2017	
6/13/2018	
6/14/2018	2.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.2
4/1/2019	
4/2/2019	
4/3/2019	2.4
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	2.2
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.9
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	3.1
3/10/2021	
3/11/2021	2.6
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	2.8
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	2.4
3/4/2022	
8/15/2022	
8/16/2022	
8/17/2022	
8/18/2022	
8/19/2022	2.1

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	0.0131 (J)	0.0538 (J)	0.284 (J)						
5/18/2016				0.206	0.018 (J)	0.779	0.106 (J)	0.1 (J)	0.014 (J)
5/19/2016									
7/19/2016	<0.1	<0.1	0.21		<0.1	0.97	0.11 (J)	0.14 (J)	<0.1
7/20/2016				0.23					
9/13/2016	<0.1	<0.1	0.15 (J)		<0.1		0.11 (J)		
9/14/2016				0.17 (J)		0.89		0.18 (J)	0.095 (J)
9/15/2016									
11/9/2016	<0.1	0.085 (J)	<0.1				0.1 (J)		
11/10/2016					<0.1	0.88		0.11 (J)	
11/11/2016				0.14 (J)					
11/14/2016									
1/17/2017	<0.1	<0.1							
1/18/2017					<0.1		0.11 (J)		
1/19/2017			0.087 (J)						<0.1
1/20/2017									
1/24/2017						0.92		0.15 (J)	
1/27/2017									
2/6/2017				0.15 (J)					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.1	<0.1							
3/14/2017			<0.1		<0.1	0.77	<0.1		<0.1
3/15/2017				0.16 (J)				0.1 (J)	
3/17/2017									
4/11/2017									
4/24/2017	<0.1	<0.1							
4/25/2017			<0.1		<0.1	0.95	<0.1	0.13 (J)	<0.1
4/26/2017				0.17 (J)					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.1	<0.1	0.087 (J)		<0.1		0.099 (J)		
8/9/2017						0.91		0.18 (J)	<0.1
8/10/2017				0.2					
10/10/2017	<0.1	0.18 (J)							
10/11/2017			0.09 (J)		<0.1	0.88	0.098 (J)	<0.1	<0.1
10/12/2017				0.14 (J)					
3/27/2018	<0.1	<0.1							
3/28/2018			0.11 (J)		<0.1		0.088 (J)		<0.1
3/29/2018								0.13 (J)	
3/30/2018				0.13 (J)		0.79			
6/13/2018	<0.1		0.085 (J)				0.093 (J)		<0.1
6/14/2018		<0.1		0.15 (J)	<0.1	0.79		<0.1	
9/24/2018		<0.1							
9/27/2018	<0.1								
9/28/2018			0.082 (J)						
10/2/2018							0.13 (J)		
10/3/2018					<0.1	0.79			<0.1
10/4/2018				0.18 (J)				0.85 (J)	
2/25/2019	<0.1	0.032 (J)							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
2/26/2019			0.23		<0.1		0.074 (J)		<0.1
2/27/2019				0.21		0.81		0.47	
2/28/2019									
4/1/2019	<0.1	0.061 (J)							
4/2/2019			0.21		<0.1		0.09 (J)		<0.1
4/3/2019									
4/4/2019				0.13 (J)		0.78		0.08 (J)	
9/16/2019	0.03 (J)						0.1 (J)		<0.1
9/17/2019		0.061 (J)	0.079 (J)						
9/18/2019					0.027 (J)	0.81		0.058 (J)	
9/19/2019				0.13 (J)					
2/3/2020	0.032 (J)	0.061 (J)							
2/4/2020							0.13		<0.1
2/5/2020			0.12	0.14	0.026 (J)				
2/7/2020						0.79		0.072 (J)	
3/16/2020	0.042 (J)	0.052 (J)							
3/17/2020			<0.1		0.044 (J)		0.037 (J)		<0.1
3/18/2020				0.052 (J)		0.71		0.084 (J)	
3/19/2020									
5/4/2020									
9/21/2020		0.037 (J)							
9/22/2020	<0.1		0.1		<0.1		0.068 (J)		<0.1
9/23/2020				0.09 (J)		0.63		0.049 (J)	
9/24/2020									
2/2/2021	0.028 (J)	0.065 (J)	0.071 (J)		<0.1				
2/3/2021							0.088 (J)		<0.1
2/4/2021				0.12		0.69		0.052 (J)	
3/10/2021		0.045 (J)	0.046 (J)		<0.1				<0.1
3/11/2021	<0.1			0.15			0.092 (J)	0.061 (J)	
3/12/2021						0.88			
8/23/2021		0.097 (J)							
8/24/2021	0.062 (J)				0.054 (J)		0.16		0.073 (J)
8/25/2021			0.13					0.099 (J)	
8/26/2021				0.16		0.77			
2/28/2022									
3/1/2022	<0.1	0.058 (J)					0.063 (J)		<0.1
3/3/2022			0.078 (J)	0.067 (J)	0.038 (J)	0.88		0.067 (J)	
3/4/2022									
8/15/2022	<0.1	0.057 (J)					0.093 (J)		<0.1
8/16/2022			0.06 (J)		<0.1				
8/17/2022						0.68		0.062 (J)	
8/18/2022									
8/19/2022				0.1					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.1
2/9/2017	
2/23/2017	<0.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.1
4/11/2017	<0.1
4/24/2017	
4/25/2017	
4/26/2017	<0.1
5/17/2017	<0.1
6/7/2017	<0.1
7/11/2017	<0.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.1
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	<0.1
3/30/2018	
6/13/2018	
6/14/2018	<0.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.1
2/25/2019	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

2/26/2019	
2/27/2019	<0.1
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	0.048 (J)
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	0.035 (J)
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	0.04 (J)
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.1
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.028 (J)
2/2/2021	
2/3/2021	
2/4/2021	0.033 (J)
3/10/2021	
3/11/2021	0.04 (J)
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.071 (J)
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	0.057 (J)
3/4/2022	
8/15/2022	
8/16/2022	
8/17/2022	
8/18/2022	
8/19/2022	<0.1

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	5.24	6.23	7.81						
5/18/2016				8.96	5.5	7.75	7.92	6.06	5.47
5/19/2016									
7/18/2016	5.434038							5.884339	
7/19/2016		6.285413			5.43	7.876073	7.154587		5.336672
7/20/2016				8.56774					
9/1/2016									
9/13/2016	5.22	6.3	7.18		5.57		7.96		
9/14/2016						7.79		5.89	7.29
9/15/2016									
11/9/2016	5.57	6.26	6.03				7.27		
11/10/2016					6.93	7.76		5.6	
11/11/2016				6.96					
11/14/2016									
1/17/2017	5.48	6.8							
1/18/2017					7.16		7.72		
1/19/2017			6.71						6.59
1/20/2017									
1/24/2017						7.71		5.54	
1/27/2017									
2/6/2017				6.93					
2/8/2017									
2/23/2017									
3/13/2017	5.4	6.18							
3/14/2017			6.45		5.82	7.57			5.86
3/15/2017				6.82				5.39	
3/17/2017									
4/11/2017									
4/24/2017	5.4	6.35							
4/25/2017			6.93		5.57	7.47	7.73	5.28	5.35
4/26/2017				6.73					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	5.32	6.23	6.72		5.6		7.74		
8/9/2017						7.37		5.46	5.25
8/10/2017				6.66					
8/25/2017									5.44
10/10/2017	5.26	6.32							
10/11/2017			6.75		5.43	7.42	7.71	5.45	6.99
10/12/2017				6.67					
3/27/2018	5.39	6.14							
3/28/2018			6.84		5.29		7.28		5.95
3/29/2018								5.33	
3/30/2018				6.98		7.48			
6/13/2018	5.33		6.31				7.78		5.13
6/14/2018		6.02		6.56	5.39	7.5		5.35	
9/24/2018		6.1							
9/27/2018	5.33								
9/28/2018			6.26						
10/2/2018							7.52		
10/3/2018					5.33	7.11			5.22

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
10/4/2018				6.4				5.28	
2/25/2019	5.25	6.02							
2/26/2019			7.66		5.62		7.87		5.21
2/27/2019				6.23		7.4		5.08	
2/28/2019									
4/1/2019	5.31	6.09							
4/2/2019			7.53		5.6		7.94		5.25
4/3/2019									
4/4/2019				6.46		7.58		5.19	
9/16/2019	5.28						7.55		6.94
9/17/2019		6.25	6.47						
9/18/2019					5.6	7.8		5.19	
9/19/2019				6.45					
2/3/2020	5.4	6.09							
2/4/2020							7.74		5.31
2/5/2020			6.73	6.42	5.54				
2/7/2020						7.66		5.17	
3/16/2020	5.29	6.01							
3/17/2020			6.36		5.32		7.96		5.34
3/18/2020				6.4		7.73		5.08	
3/19/2020									
5/4/2020									
9/21/2020		6.05							
9/22/2020	5.09		7.18		5.36		7.4		6.78
9/23/2020				6.14		7.35		5.05	
9/24/2020									
2/2/2021	5.36	6.1	6.48		5.84				
2/3/2021							7.76		5.3
2/4/2021				6.21		7.77		5.42	
3/10/2021		6.11	5.8		4.96				5.22
3/11/2021	5.26			6.56			7.93	5.21	
3/12/2021						7.72			
8/23/2021		6.18							
8/24/2021	5.21				5.53		7.88		6.8
8/25/2021			6.74					5.25	
8/26/2021				6.31		7.58			
2/28/2022									
3/1/2022	5.32	6.2					7.86		5.47
3/3/2022			5.94	6.36	5.49	7.61		5.22	
3/4/2022									
8/15/2022	5.28	6.04					7.76		6.54
8/16/2022			6.19		5.32				
8/17/2022						7.54		5.24	
8/18/2022									
8/19/2022				6.2					

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
5/17/2016									
5/18/2016	6.41	7.23	5.55						
5/19/2016				5.93	6.85	5.99	6.31	6.91	
7/18/2016				5.9661					
7/19/2016									
7/20/2016	6.662463	7.281557	5.656628		6.705264	6.194334	6.345061	6.962608	
9/1/2016								6.96	
9/13/2016		7.15	5.63						
9/14/2016	6.7				6.7		6.33		
9/15/2016						6.38			
11/9/2016									
11/10/2016	6.51	6.33	5.61		6.5				
11/11/2016				6.03				6.76	6.93
11/14/2016						5.7			
1/17/2017									
1/18/2017		6.94	5.81						
1/19/2017									
1/20/2017	6.55								
1/24/2017									
1/27/2017				6.21	6.47			6.66	
2/6/2017						5.66			6.8
2/8/2017									
2/23/2017									
3/13/2017									
3/14/2017	6.27	6.75	5.53						
3/15/2017				5.97	6.75	5.77	5.99	6.3	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	6.26	6.84	5.59						
4/26/2017				6.17	6.57	5.39	6.03	6.67	6.82
5/17/2017									
6/7/2017									6.76
7/11/2017									6.99
8/8/2017			5.52						
8/9/2017	6.47	6.67			6.55				
8/10/2017				6.05		5.59	5.86	6.7	6.59
8/25/2017									
10/10/2017									
10/11/2017	6.47	6.75	5.51						
10/12/2017				6.89	6.67	5.46	6.09	6.89	6.7
3/27/2018									
3/28/2018		6.79	5.6						
3/29/2018				6.85	6.99	5.43	5.89	7.08	6.88
3/30/2018	6.71								
6/13/2018									
6/14/2018	6.15	6.67	5.58	5.89	6.39	5.76	6.47	6.73	6.72
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		6.92	5.45						

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/18/2016	
7/19/2016	
7/20/2016	
9/1/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	5.81
2/23/2017	5.8
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	5.97
4/11/2017	6.18
4/24/2017	
4/25/2017	
4/26/2017	6.09
5/17/2017	6.26
6/7/2017	6.21
7/11/2017	6
8/8/2017	
8/9/2017	
8/10/2017	
8/25/2017	
10/10/2017	
10/11/2017	6.97
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	6.51
3/30/2018	
6/13/2018	
6/14/2018	5.76
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A
10/4/2018	5.97
2/25/2019	
2/26/2019	
2/27/2019	5.73
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	5.68
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	5.5
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	5.52
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	5.49
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	5.16
2/2/2021	
2/3/2021	
2/4/2021	5.76
3/10/2021	
3/11/2021	5.1
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	5.39
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	5.4
3/4/2022	
8/15/2022	
8/16/2022	
8/17/2022	
8/18/2022	
8/19/2022	5.25

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<1	1.14	19.9						
5/18/2016				2.84	0.368 (J)	50.7	8.88	388	0.955 (J)
5/19/2016									
7/19/2016	<1	1.4	14		<1	62	9	460	0.76 (J)
7/20/2016				2.8					
9/13/2016	<1	1.1	11		<1		8.5		
9/14/2016				2.8		79		500	3.4
9/15/2016									
11/9/2016	<1	1.1	6.3				8.2		
11/10/2016					<1	61		530	
11/11/2016				2.6					
11/14/2016									
1/17/2017	<1	2.1							
1/18/2017					1.4		9.4		
1/19/2017			7.4						21
1/20/2017									
1/24/2017						34		600	
1/27/2017									
2/6/2017				2.7					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<1	0.97 (J)							
3/14/2017			10		<1	43	2		1.4
3/15/2017				2.7				610	
3/17/2017									
4/11/2017									
4/24/2017	<1	0.75 (J)							
4/25/2017			10		<1	39	8.2	620	0.89 (J)
4/26/2017				2.5					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<1	1.1	12		<1		8.5		
8/9/2017						35		780	0.75 (J)
8/10/2017				2.2					
10/10/2017	<1	1.3							
10/11/2017			11		<1	48	8.3	720	<1
10/12/2017				1.9					
6/13/2018	<1		8.2				8.3		<1
6/14/2018		0.84 (J)		2	<1	44		620	
9/24/2018		0.79 (J)							
9/27/2018	<1								
9/28/2018			7.6						
10/2/2018							8.3		
10/3/2018					<1	49			<1
10/4/2018				1.9				560	
4/1/2019	<1	1							
4/2/2019			11		0.4 (J)		8.5		0.94 (J)
4/3/2019									
4/4/2019				2.2		41		250	
9/16/2019	0.49 (J)						8.9		2.2

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		1.3	8						
9/18/2019					<1	37		130	
9/19/2019				2.1					
3/16/2020	0.42 (J)	1.3							
3/17/2020			8.5		0.86 (J)		12		4
3/18/2020				2.1		17		120	
3/19/2020									
5/4/2020									
9/21/2020		1.1							
9/22/2020	<1		9		0.38 (J)		8		1.5
9/23/2020				1.8		21		85	
9/24/2020									
3/10/2021		0.9 (J)	7.1		<1				<1
3/11/2021	<1			2.8			8.4	64	
3/12/2021						19			
8/23/2021		1.3							
8/24/2021	<1				<1		8.9		2.8
8/25/2021			8.2					63	
8/26/2021				1.8		16			
2/28/2022									
3/1/2022	<1	1.6					9.2		0.99 (J)
3/3/2022			8.5	2	<1	18		57	
3/4/2022									
8/15/2022	<1	0.54 (J)					7.5		1.6
8/16/2022			7.2		<1				
8/17/2022						14		49	
8/18/2022									
8/19/2022				1.6					

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	4.3
2/9/2017	
2/23/2017	16
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	22
4/11/2017	13
4/24/2017	
4/25/2017	
4/26/2017	20
5/17/2017	12
6/7/2017	8.1
7/11/2017	17
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.4
10/12/2017	
6/13/2018	
6/14/2018	5.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.8
4/1/2019	
4/2/2019	
4/3/2019	3.8
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	1.7
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.5
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	1.2
3/10/2021	
3/11/2021	1.7
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	<1
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	1.3
3/4/2022	
8/15/2022	
8/16/2022	
8/17/2022	
8/18/2022	
8/19/2022	<1

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<10	100	112						
5/18/2016				70	31	190	113	1080	33
5/19/2016									
7/19/2016	14	84	80		<10	180	92	1200	<10
7/20/2016				42					
9/13/2016	50	70	120		<10		100		
9/14/2016				40		230		1300	150
9/15/2016									
11/9/2016	22	110	76				130		
11/10/2016					44	210		1400	
11/11/2016				72					
11/14/2016									
1/17/2017	8	120							
1/18/2017					50		120		
1/19/2017			36						34
1/20/2017									
1/24/2017						140		1300	
1/27/2017									
2/6/2017				24					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<10	58							
3/14/2017			70		26	220	110		32
3/15/2017				78				1500	
3/17/2017									
4/11/2017									
4/24/2017	10	94							
4/25/2017			70		10	180	100	1700	22
4/26/2017				48					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<10	62	72		<10		90		
8/9/2017						180		1900	20
8/10/2017				38					
10/10/2017	44	140							
10/11/2017			90		42	200	98	1900	4 (J)
10/12/2017				72					
6/13/2018	24		38				110		<10
6/14/2018		80		40	14	170		1500	
9/24/2018		76							
9/27/2018	28								
9/28/2018			68						
10/2/2018							130		
10/3/2018					6	260			24
10/4/2018				60				1700	
4/1/2019	<10	63							
4/2/2019			100		15		110		25
4/3/2019									
4/4/2019				30		170		710	
9/16/2019	27						110		41

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		120	76						
9/18/2019					35	160		520	
9/19/2019				52					
3/16/2020	23	90							
3/17/2020			81		19		120		18
3/18/2020				58		160		370	
3/19/2020									
5/4/2020									
9/21/2020		100							
9/22/2020	24		96		15		130		190
9/23/2020				50		150		250	
9/24/2020									
3/10/2021		100	72		20				19
3/11/2021	24			52			110	190	
3/12/2021						130			
8/23/2021		110							
8/24/2021	32				24		120		150
8/25/2021			92					220	
8/26/2021				60		150			
2/28/2022									
3/1/2022	30	92					140		23
3/3/2022			43	45	17	140		170	
3/4/2022									
8/15/2022	45	100					120		140
8/16/2022			60		22				
8/17/2022						140		170	
8/18/2022									
8/19/2022				63					

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	54
2/9/2017	
2/23/2017	78
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	56
4/11/2017	76
4/24/2017	
4/25/2017	
4/26/2017	76
5/17/2017	68
6/7/2017	72
7/11/2017	68
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	68
10/12/2017	
6/13/2018	
6/14/2018	52
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	130
4/1/2019	
4/2/2019	
4/3/2019	31
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/10/2022 2:05 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	33
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	18
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	24
3/10/2021	
3/11/2021	24
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	30
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	17
3/4/2022	
8/15/2022	
8/16/2022	
8/17/2022	
8/18/2022	
8/19/2022	26

FIGURE E.

Trend Test - Prediction Limit Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:10 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.8639	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1779	103	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04664	80	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.43	144	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1093	89	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08795	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-40.16	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.81	146	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008295	-99	-98	Yes	23	17.39	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02839	-101	-98	Yes	23	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1222	-163	-98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.4648	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-78.09	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	124	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.615	88	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.72	139	74	Yes	19	0	n/a	n/a	0.01	NP

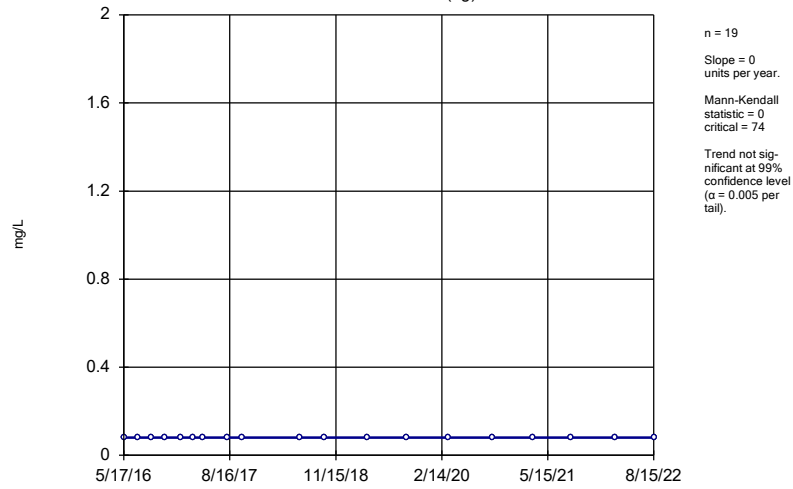
Trend Test - Prediction Limit Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 2:10 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	30	74	No	19	89.47	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-37	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8639	-102	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1779	103	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04664	80	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.02925	62	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.347	-65	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.2578	-41	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	-10	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	-0.1781	-43	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.04614	-24	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	10.43	144	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1093	89	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.05644	-45	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.06404	71	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	0	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-49	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08795	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	11	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	12	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-40.16	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	18.81	146	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-25	-98	No	23	73.91	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008295	-99	-98	Yes	23	17.39	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01629	-96	-98	No	23	39.13	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-27	-98	No	23	69.57	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.005378	-75	-98	No	23	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	22	92	No	22	86.36	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.005428	-83	-98	No	23	8.696	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-31	-98	No	23	73.91	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02839	-101	-98	Yes	23	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1222	-163	-98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-15	-74	No	19	89.47	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.6083	-59	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.01752	-15	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	0	1	74	No	19	5.263	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.4648	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.03093	25	68	No	18	22.22	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-10	-74	No	19	73.68	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-78.09	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	124	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.615	88	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.857	60	74	No	19	21.05	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-2.704	-22	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	1.758	21	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.506	31	74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.44	35	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.549	15	68	No	18	11.11	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.43	53	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.199	13	74	No	19	15.79	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	47.72	139	74	Yes	19	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

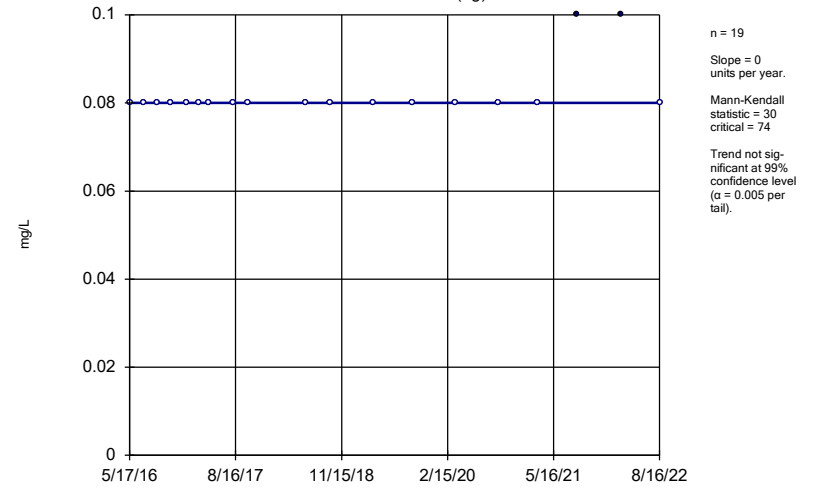
WGWA-1 (bg)



Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

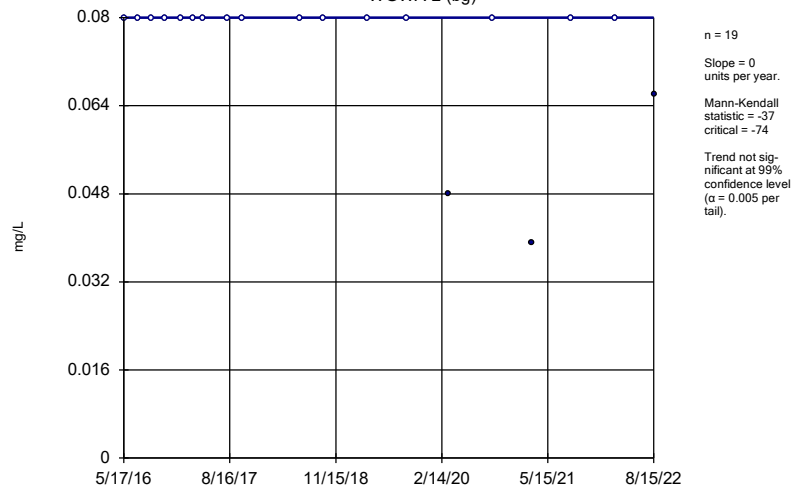
WGWA-18 (bg)



Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

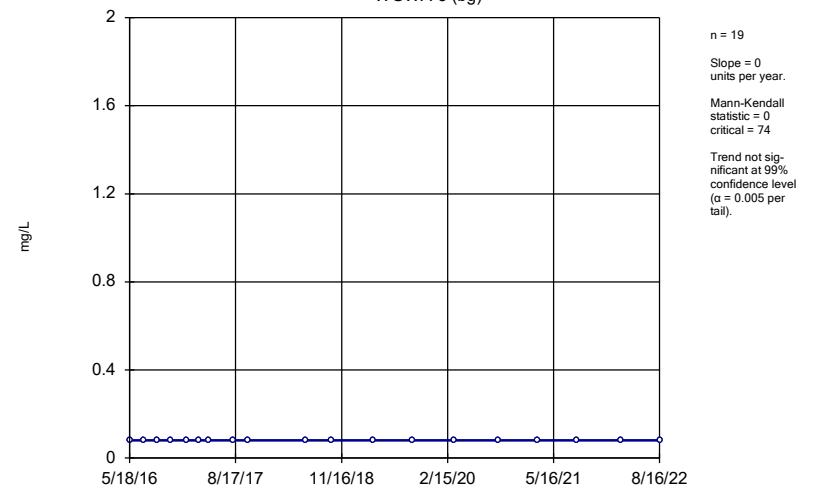
WGWA-2 (bg)



Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

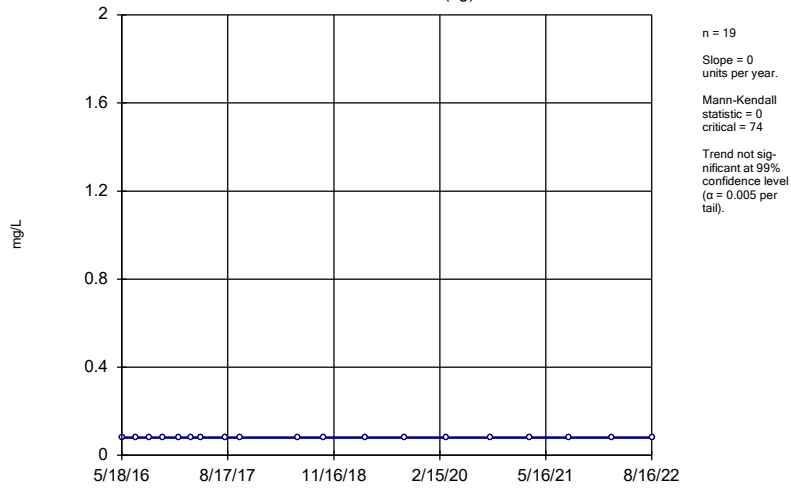
Sen's Slope Estimator

WGWA-3 (bg)



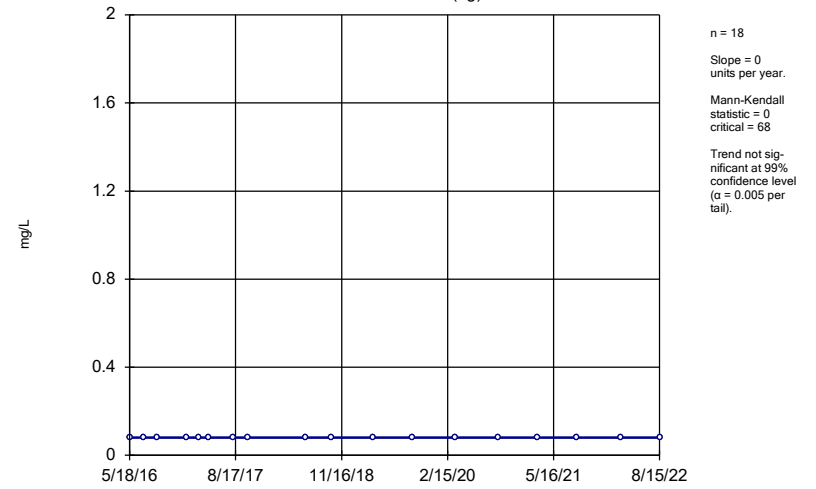
Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-4 (bg)



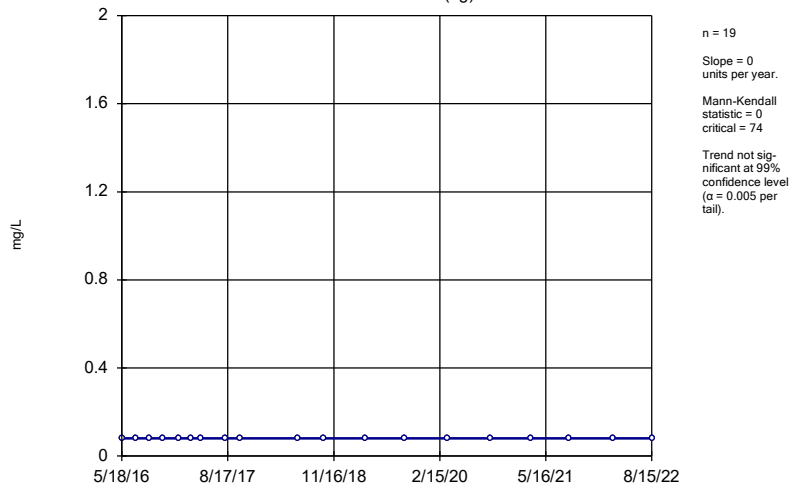
Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-5 (bg)



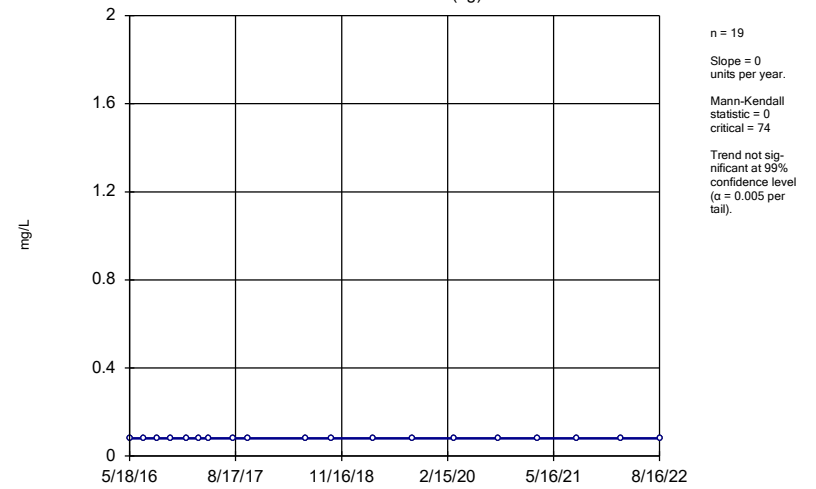
Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-6 (bg)



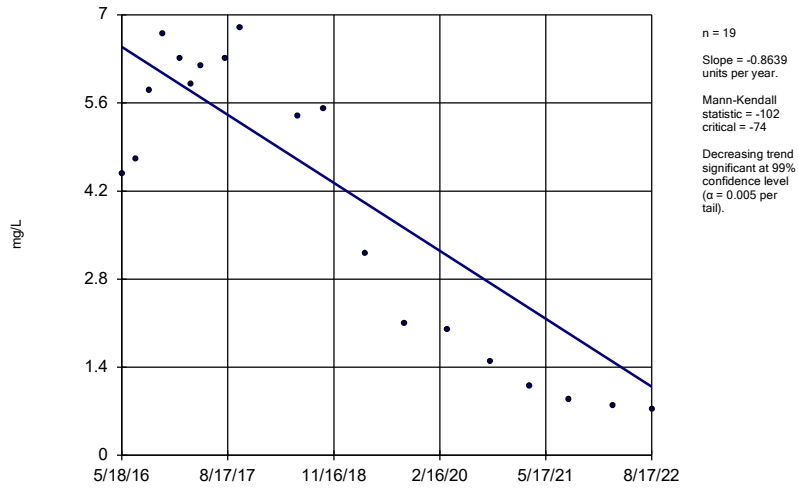
Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-7 (bg)



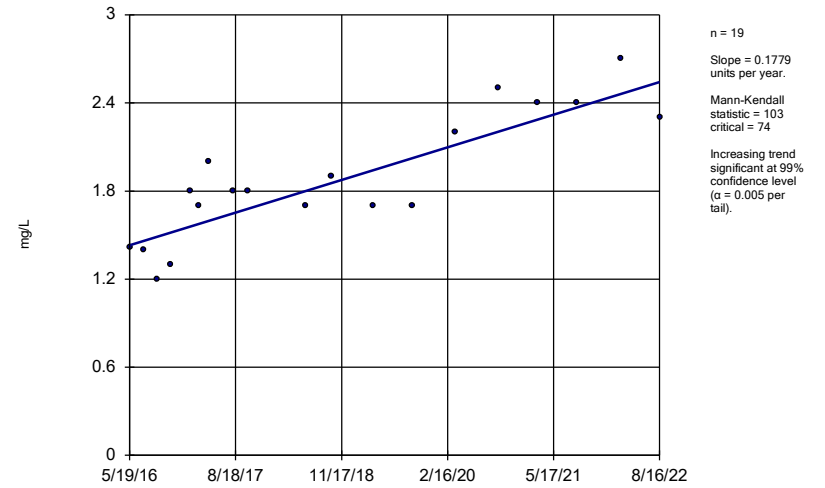
Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWC-16



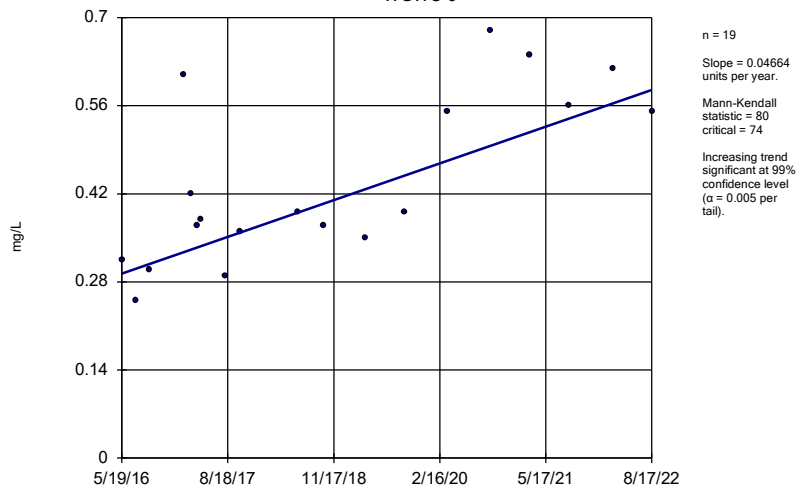
Constituent: Boron, total Analysis Run 11/10/2022 2:08 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWC-8



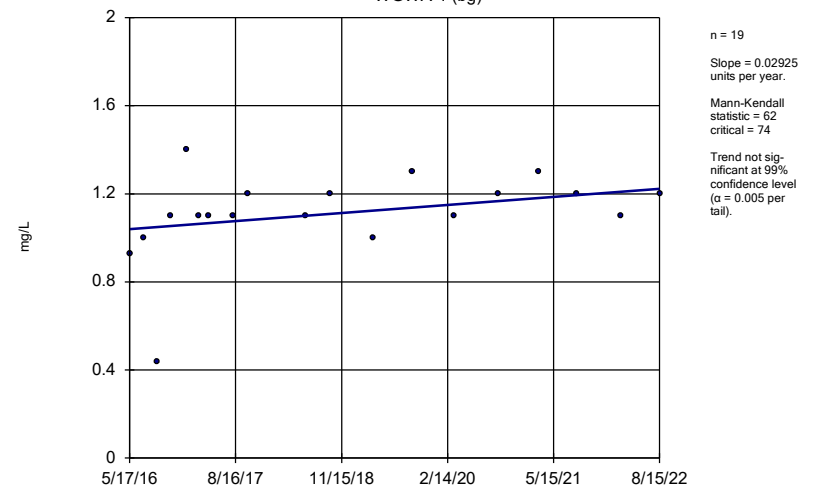
Constituent: Boron, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWC-9



Constituent: Boron, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

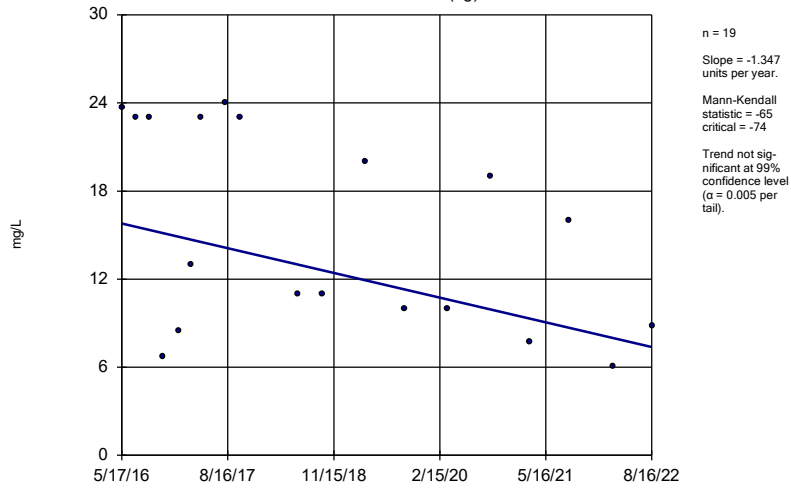
Sen's Slope Estimator WGWA-1 (bg)



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

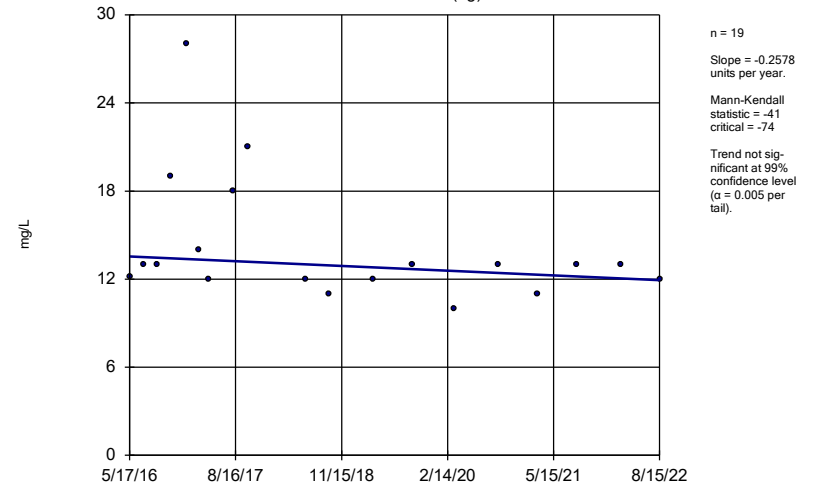
WGWA-18 (bg)



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

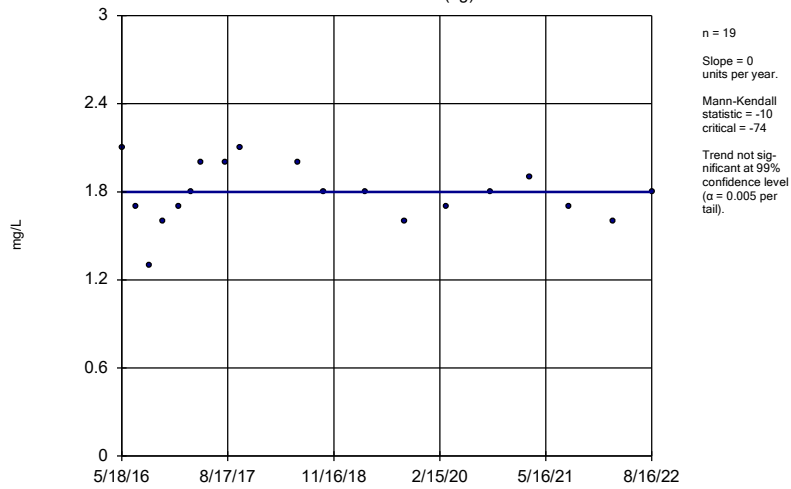
WGWA-2 (bg)



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

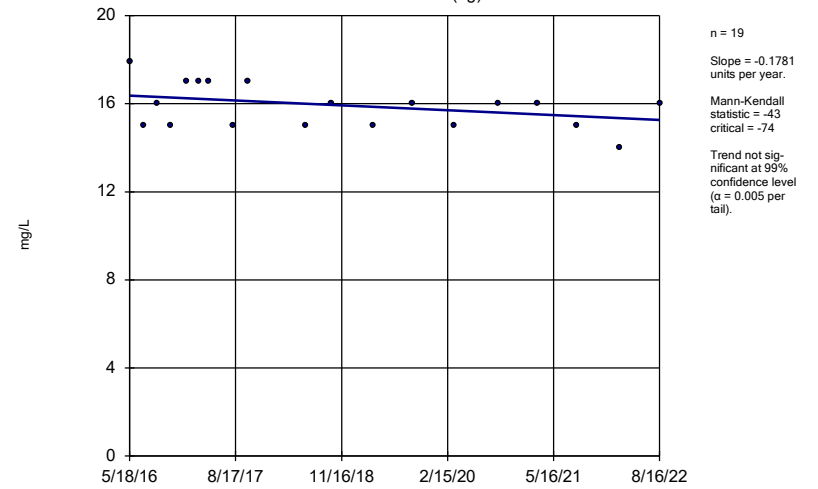
WGWA-3 (bg)



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

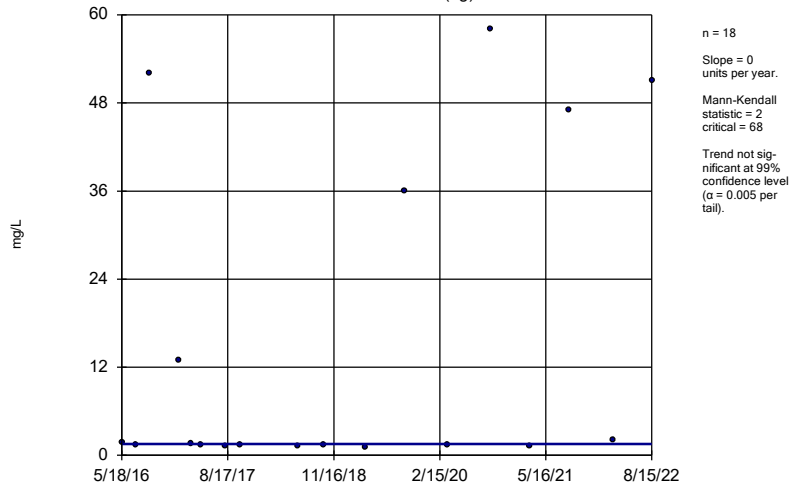
Sen's Slope Estimator

WGWA-4 (bg)



Sen's Slope Estimator

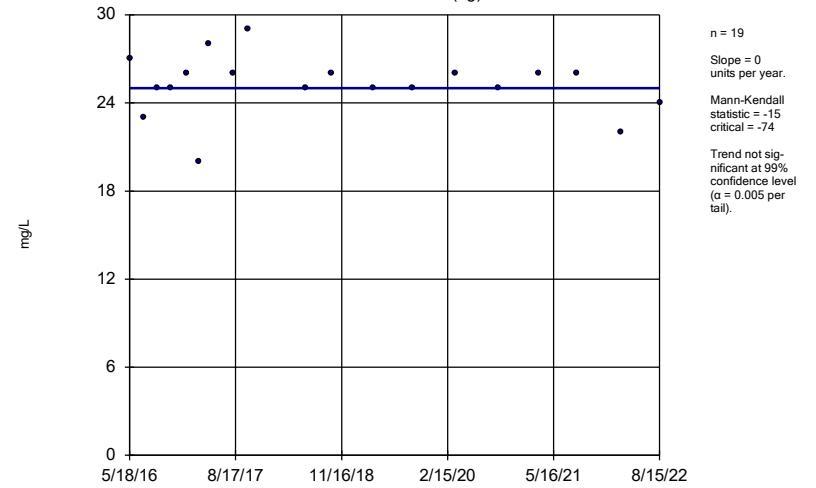
WGWA-5 (bg)



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

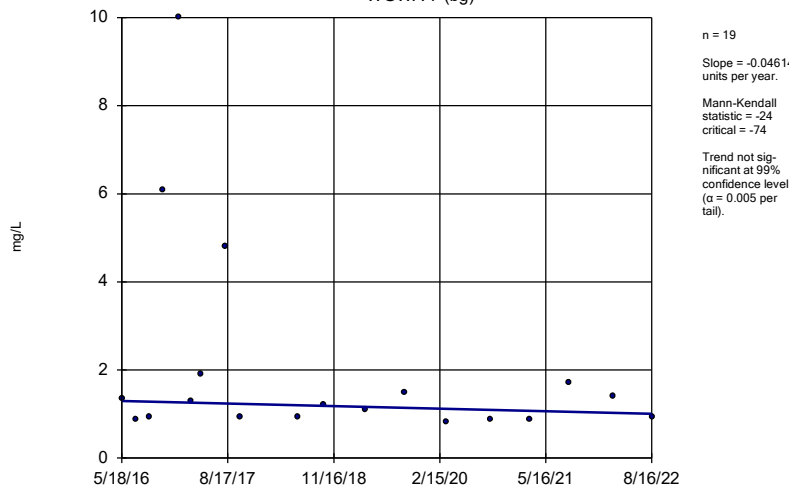
WGWA-6 (bg)



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

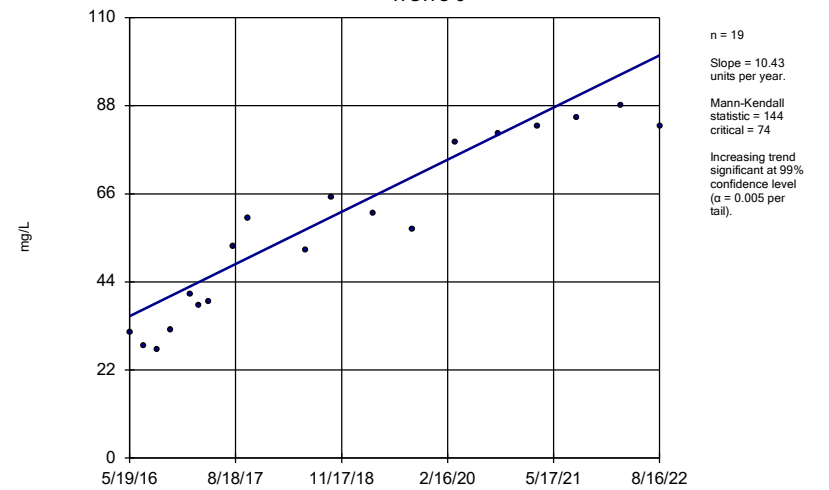
WGWA-7 (bg)



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

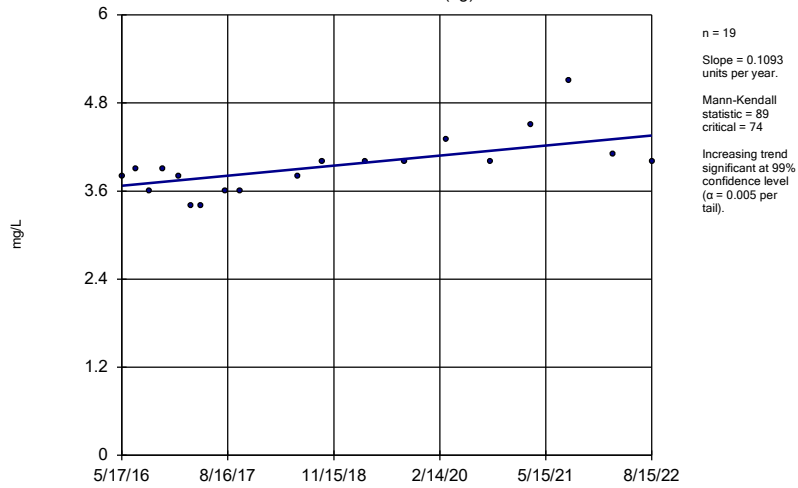
WGWC-8



Constituent: Calcium, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

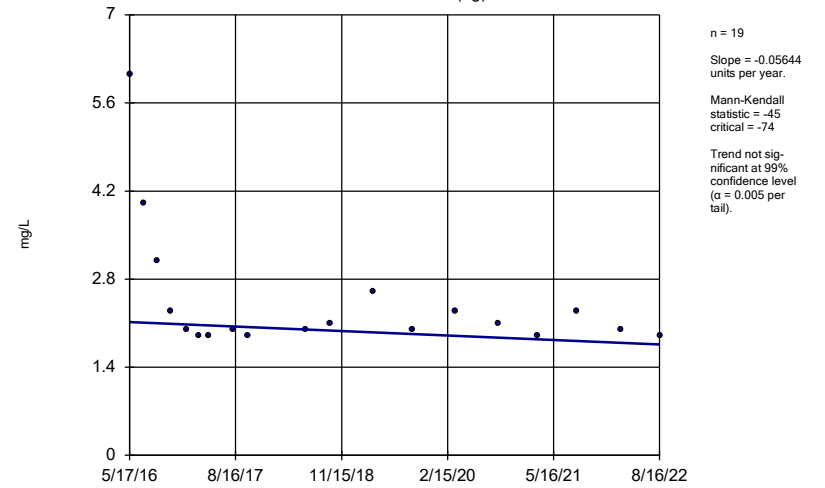
WGWA-1 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

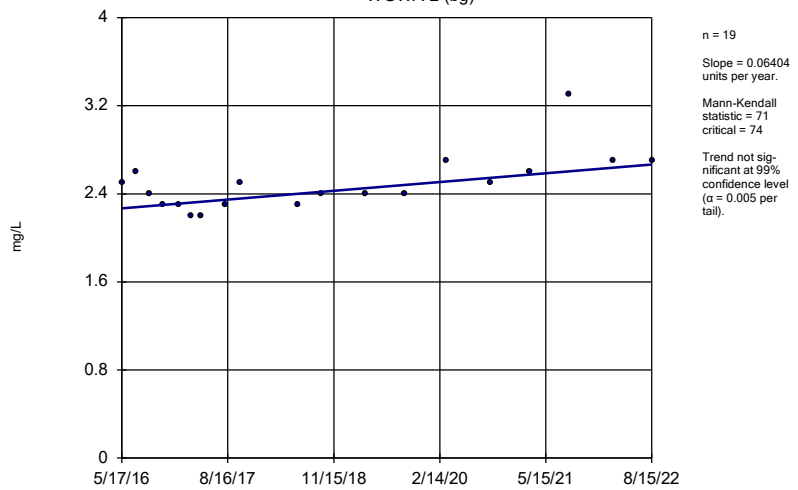
WGWA-18 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

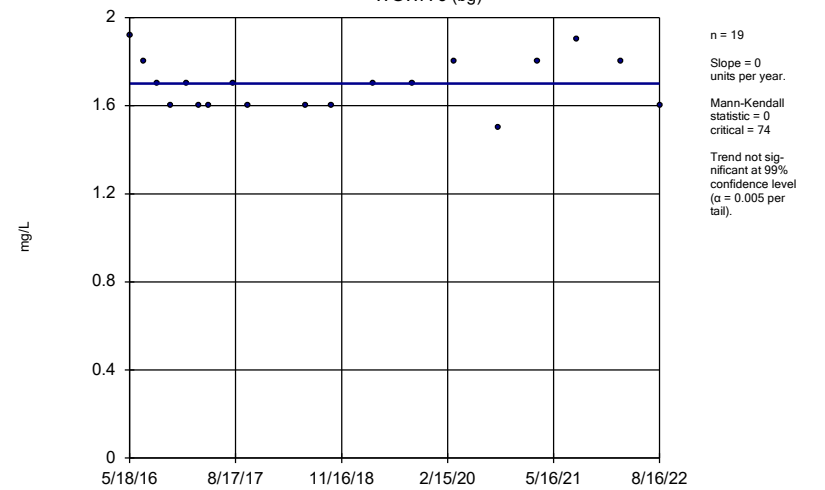
WGWA-2 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

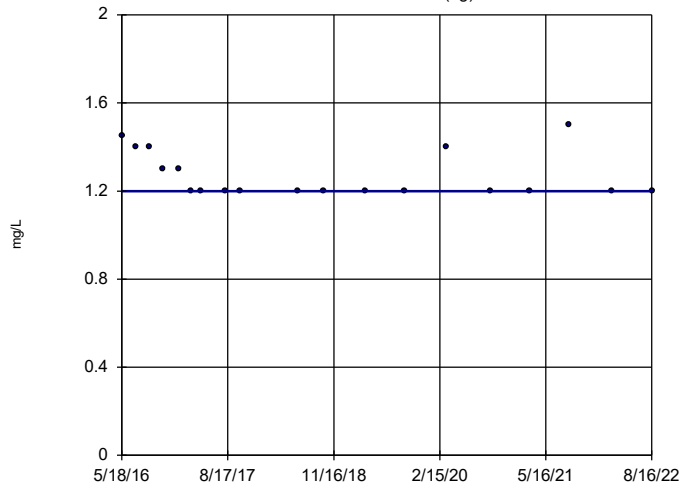
WGWA-3 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

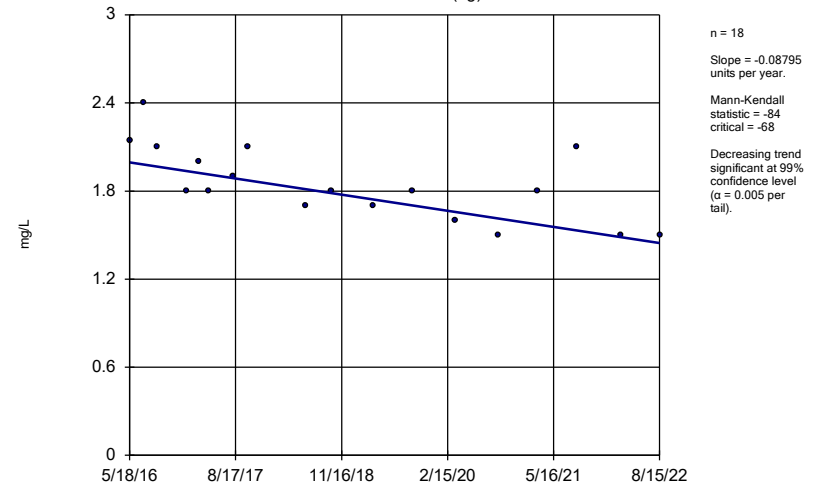
WGWA-4 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

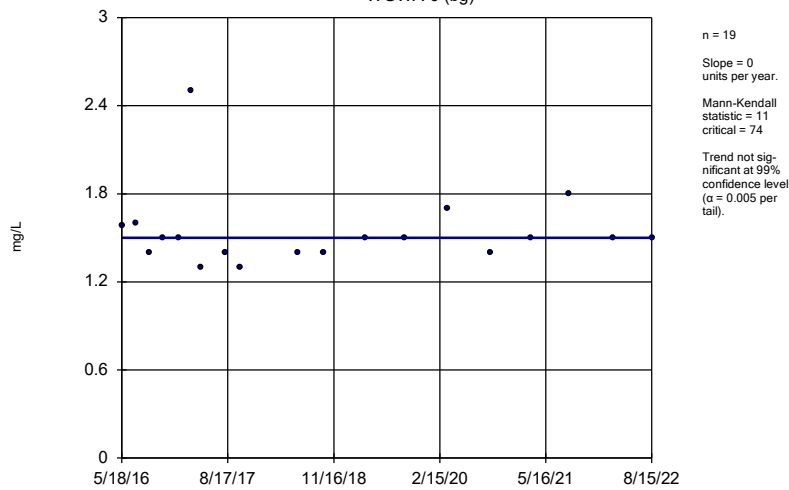
WGWA-5 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

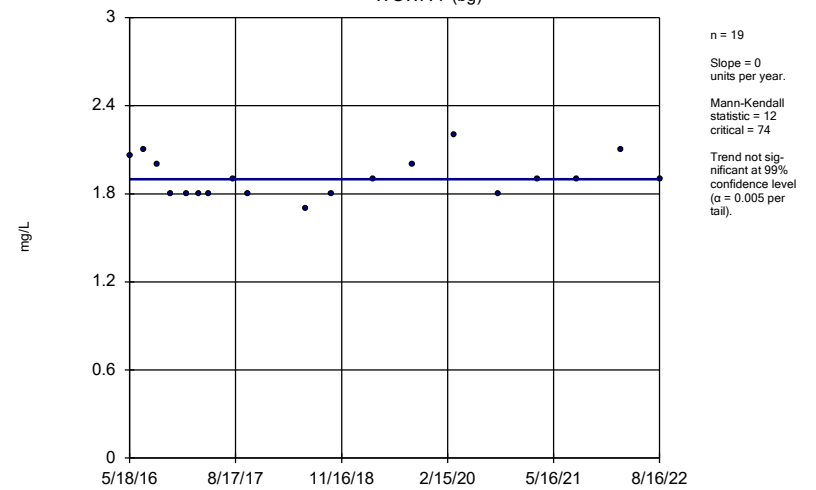
WGWA-6 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

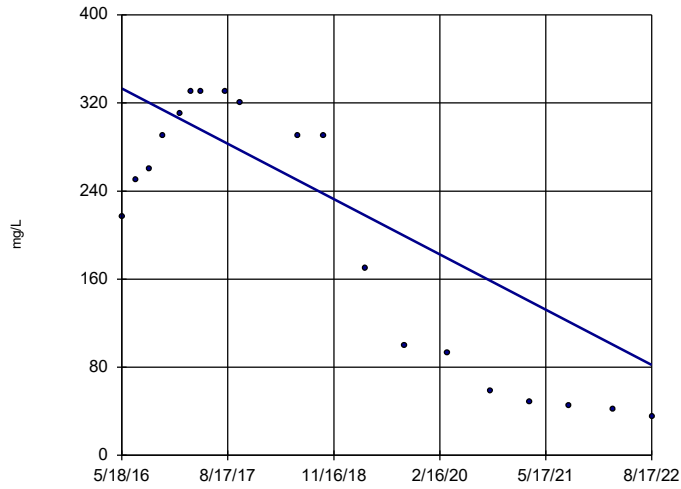
WGWA-7 (bg)



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

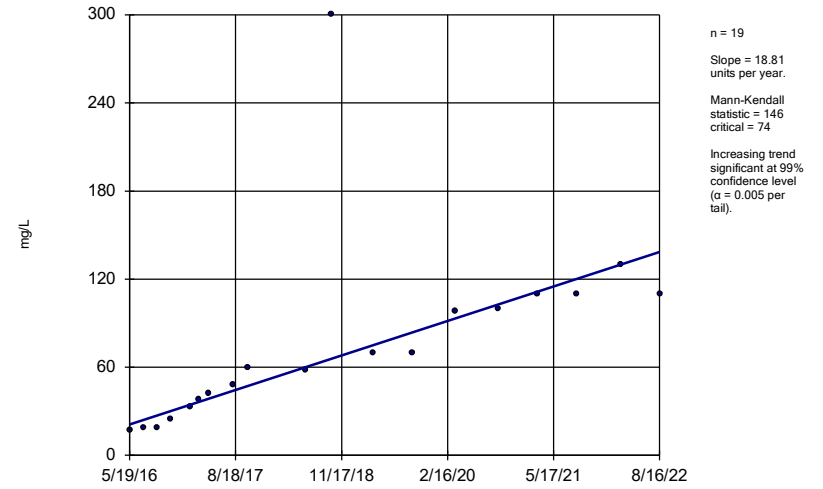
WGWC-16



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

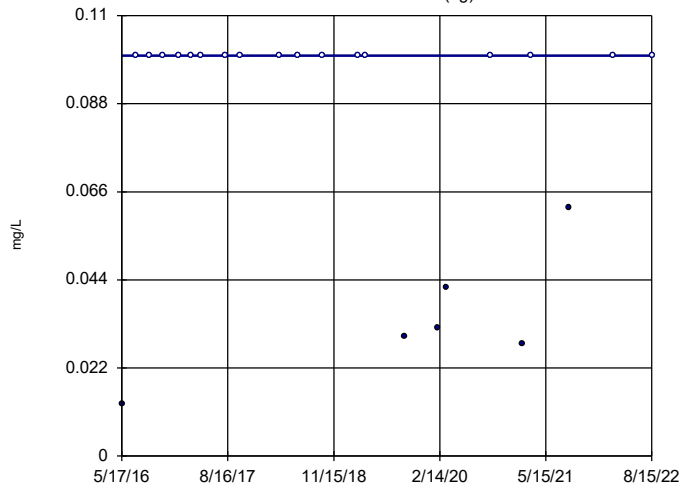
WGWC-8



Constituent: Chloride, Total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

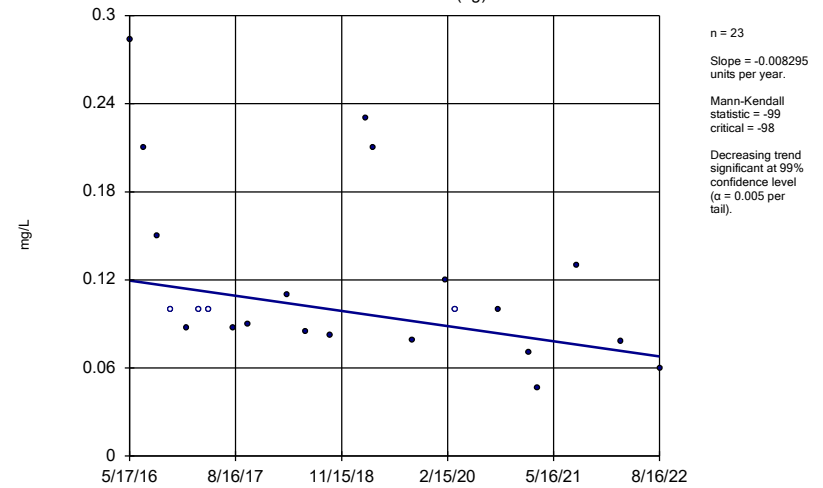
WGWA-1 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

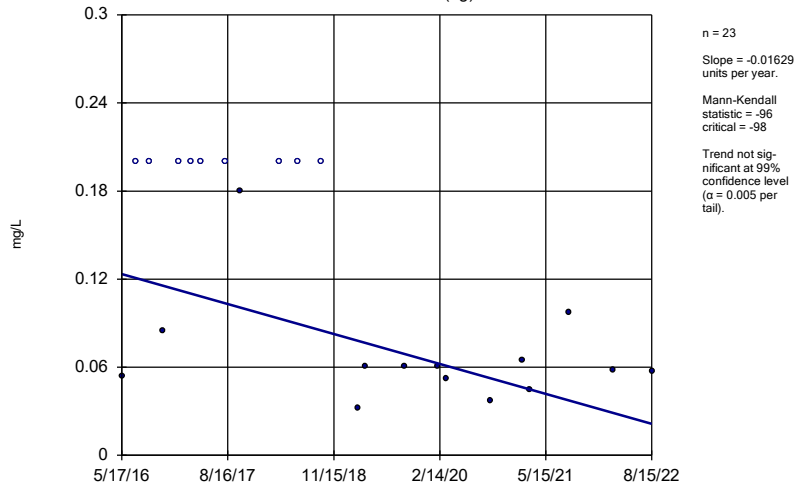
WGWA-18 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

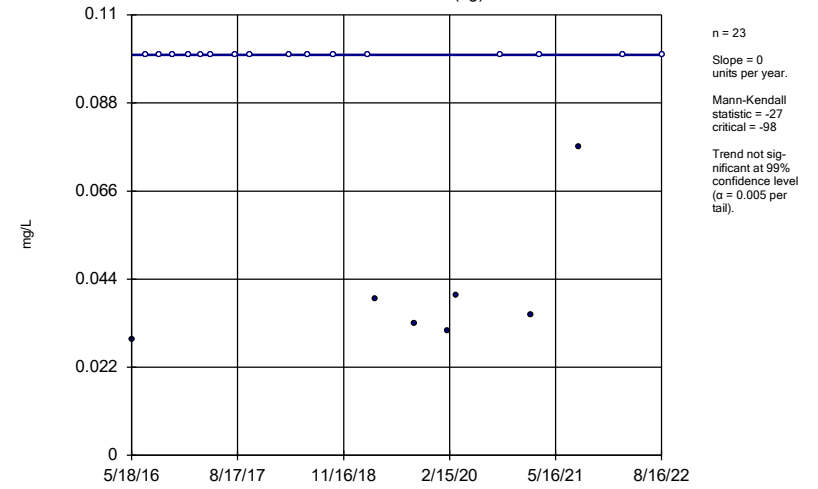
WGWA-2 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

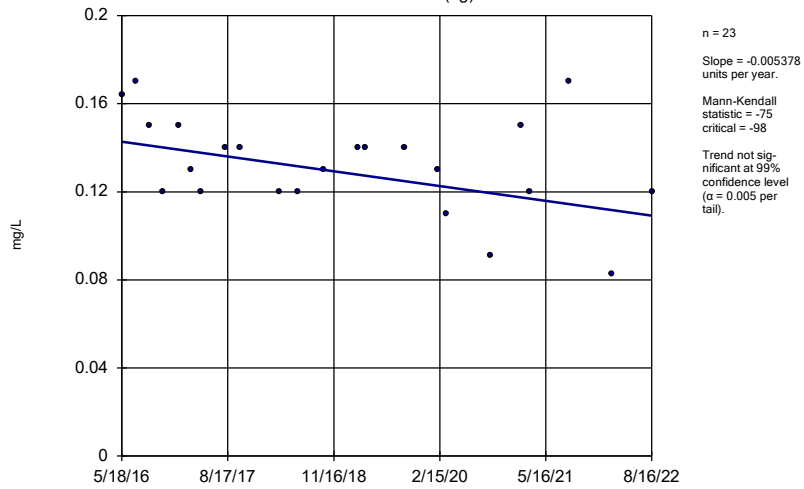
WGWA-3 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

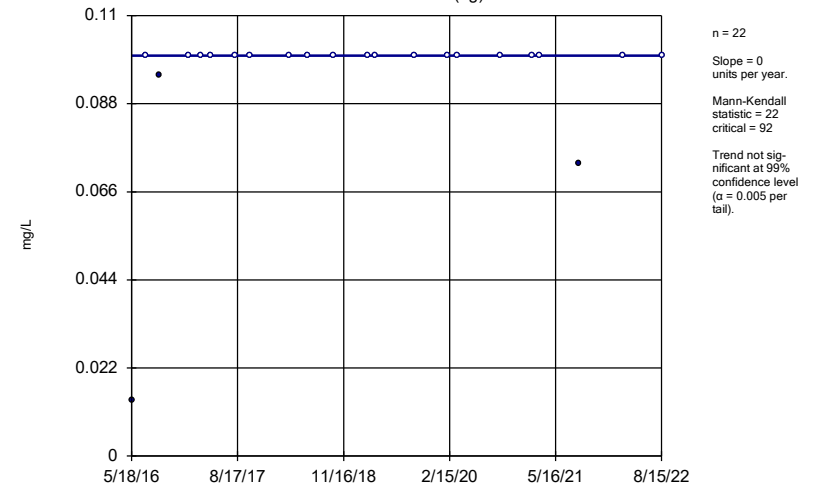
WGWA-4 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

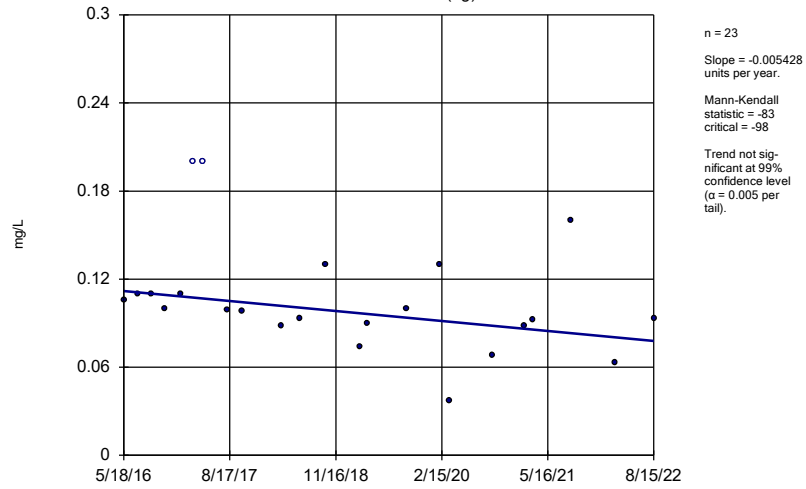
WGWA-5 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

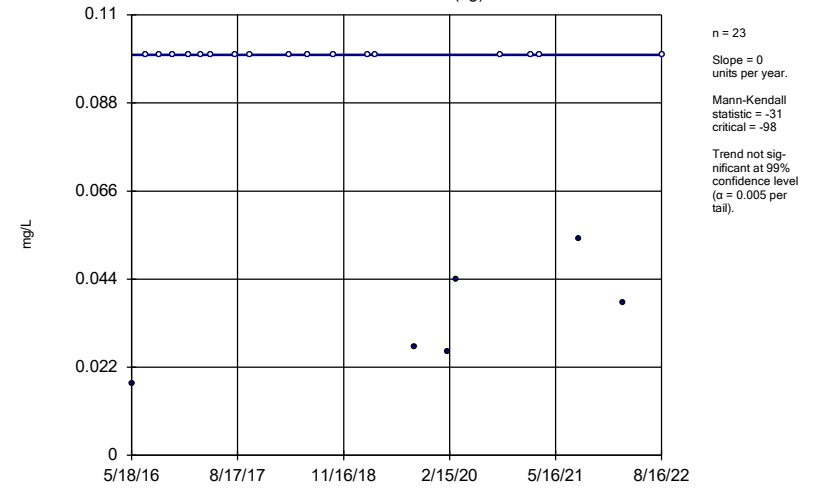
WGWA-6 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

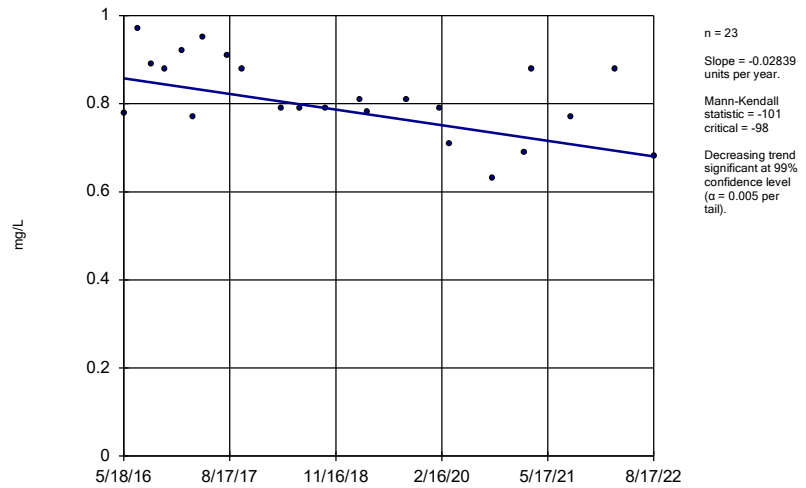
WGWA-7 (bg)



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

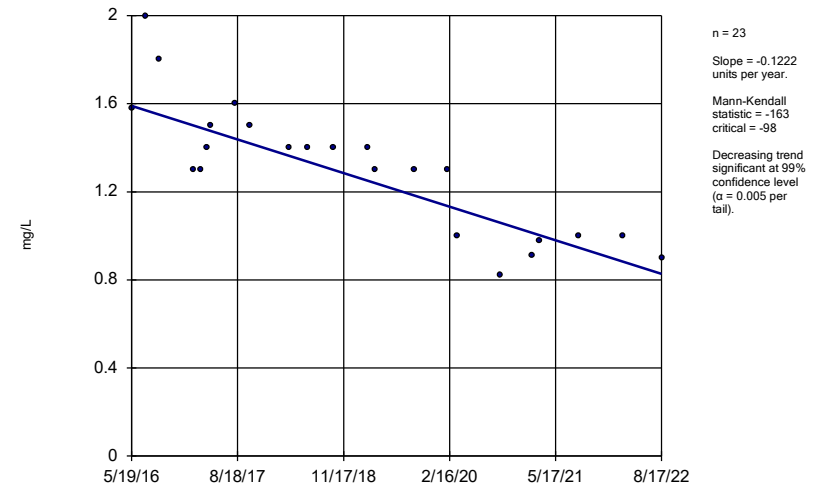
WGWC-15



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

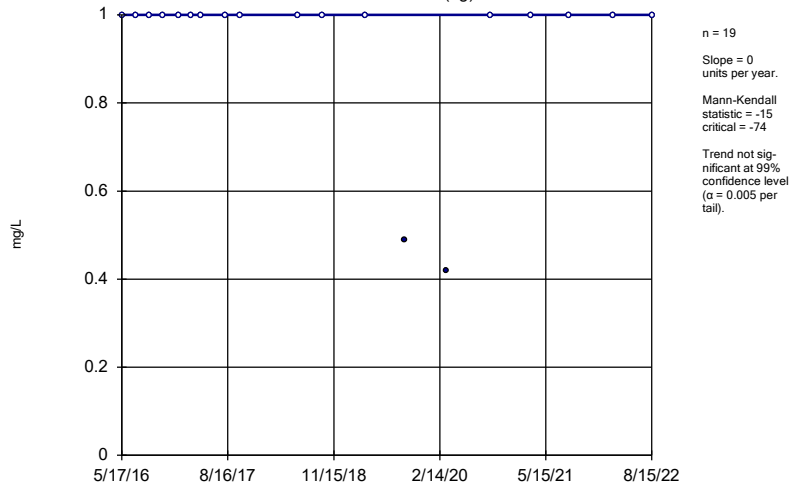
WGWC-9



Constituent: Fluoride, total Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

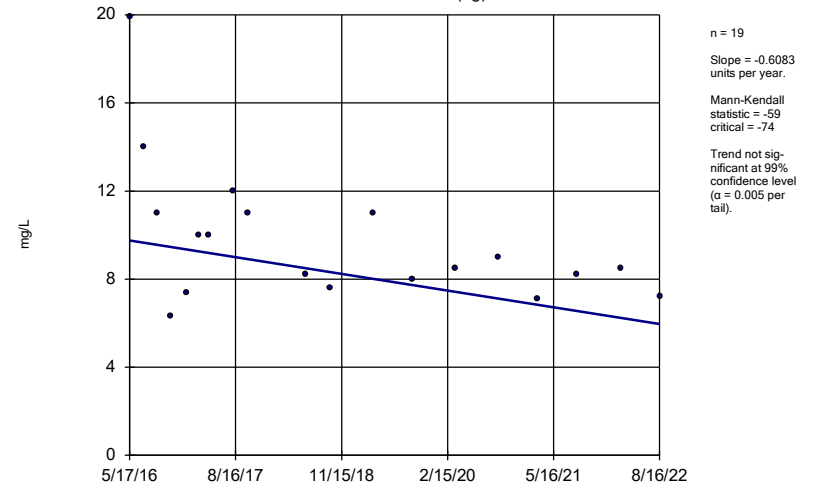
WGWA-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

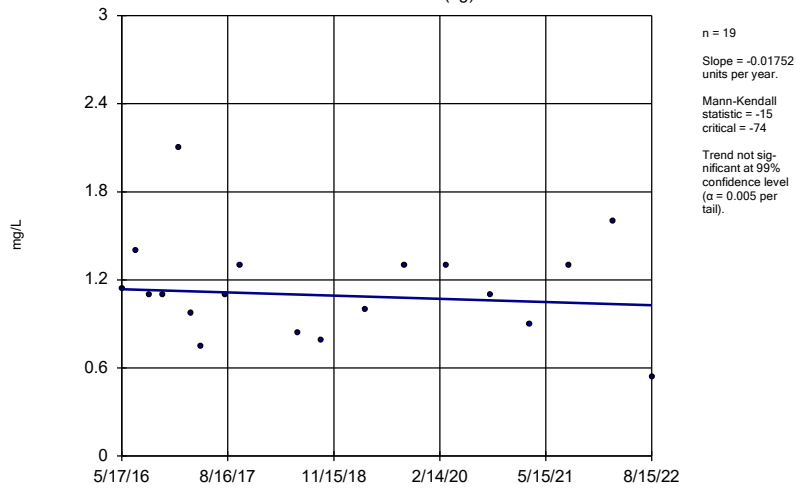
WGWA-18 (bg)



Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

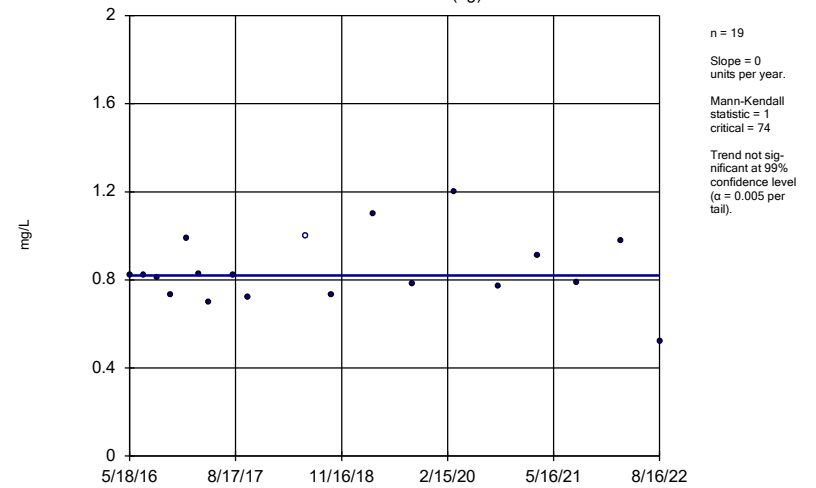
WGWA-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

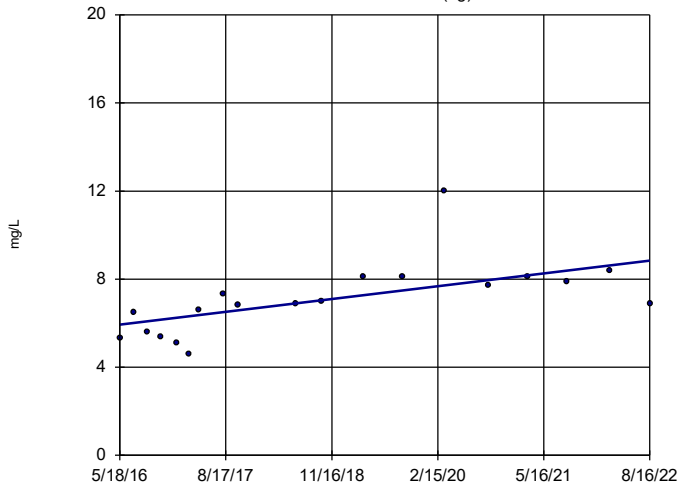
WGWA-3 (bg)



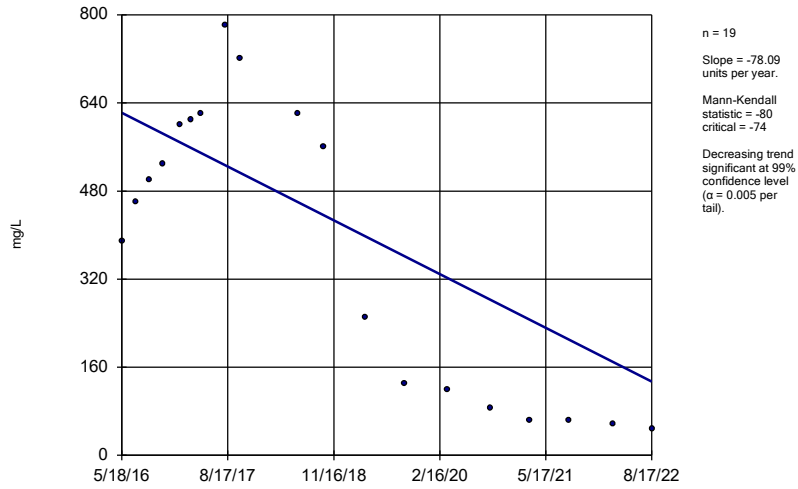
Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

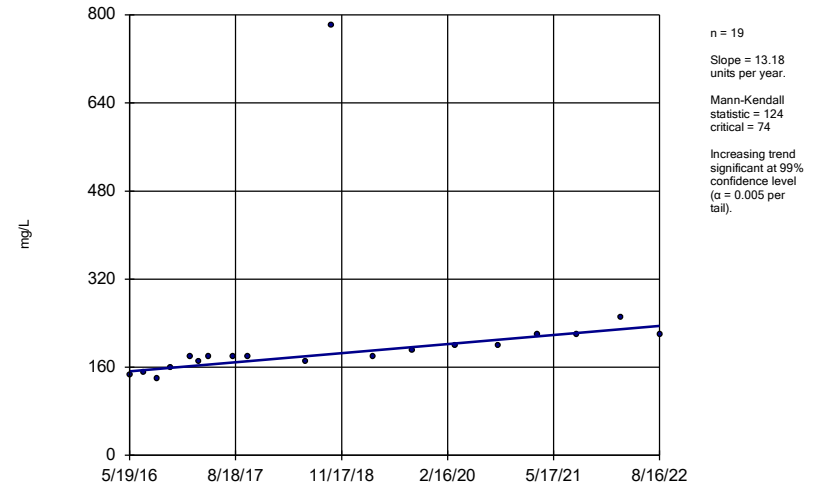


Sen's Slope Estimator
WGWC-16



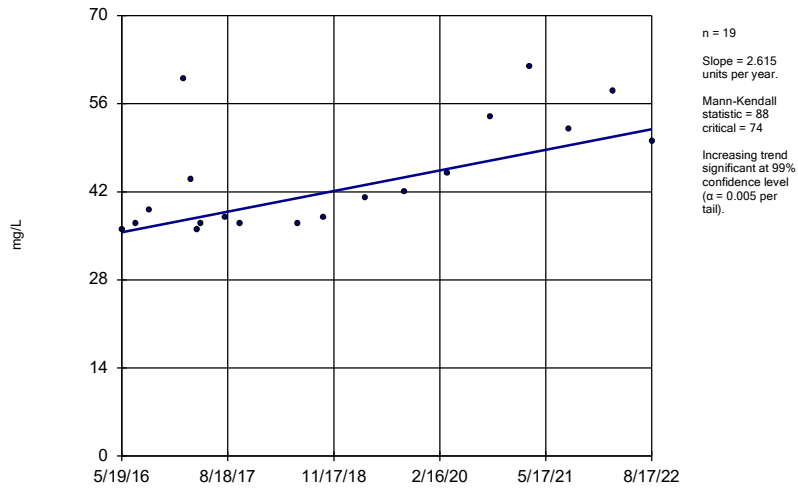
Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-8



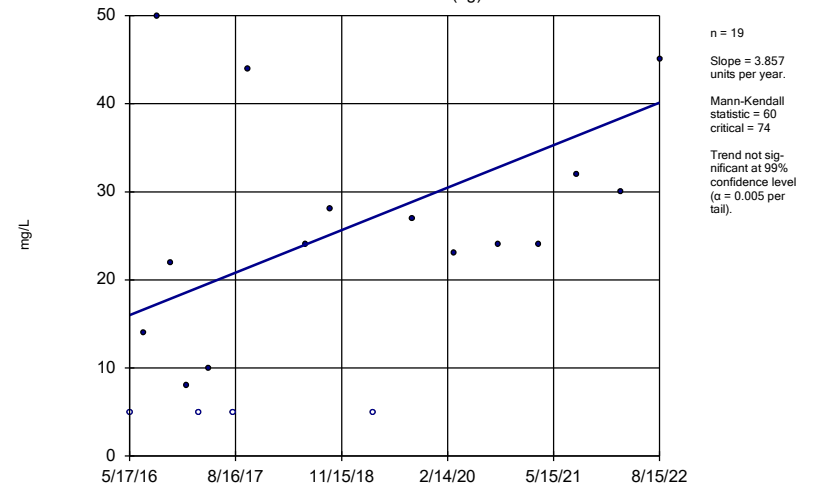
Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-9



Constituent: Sulfate as SO4 Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

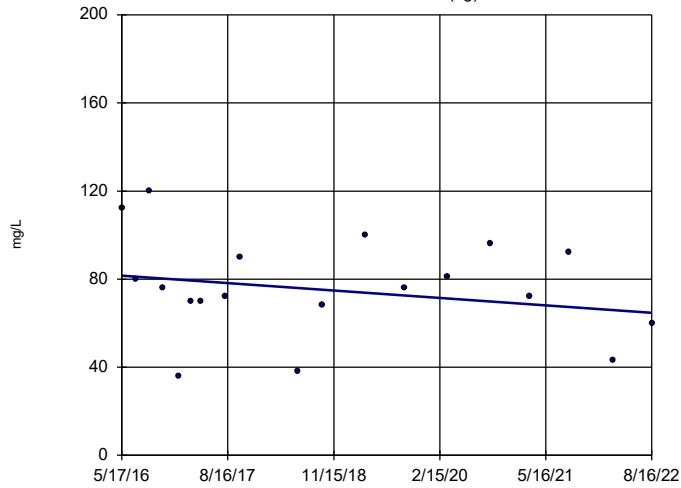
Sen's Slope Estimator
WGWA-1 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

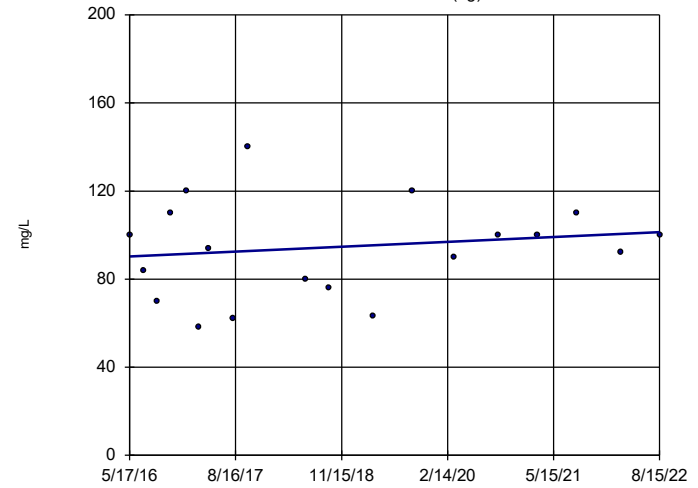


n = 19
 Slope = -2.704
 units per year.
 Mann-Kendall
 statistic = -22
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

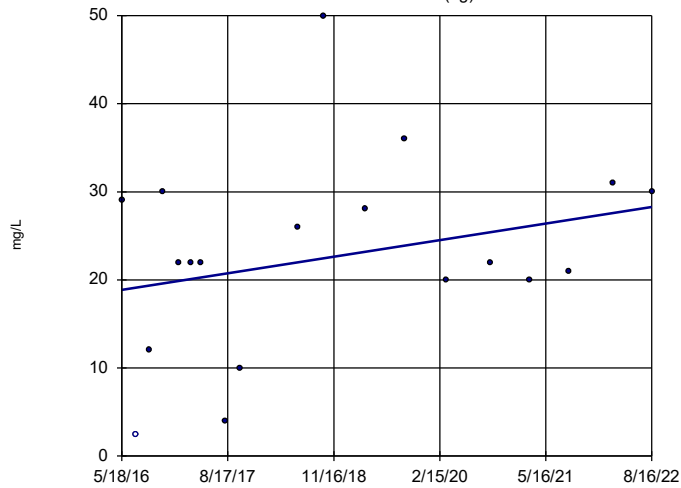


n = 19
 Slope = 1.758
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

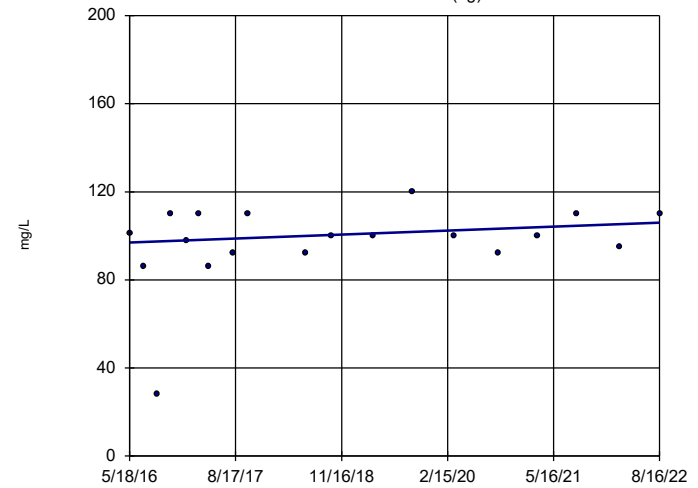


n = 19
 Slope = 1.506
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

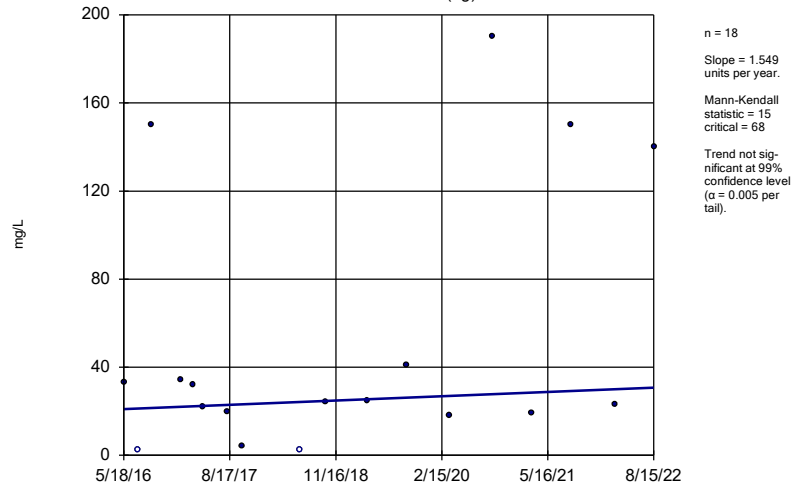


n = 19
 Slope = 1.44
 units per year.
 Mann-Kendall
 statistic = 35
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

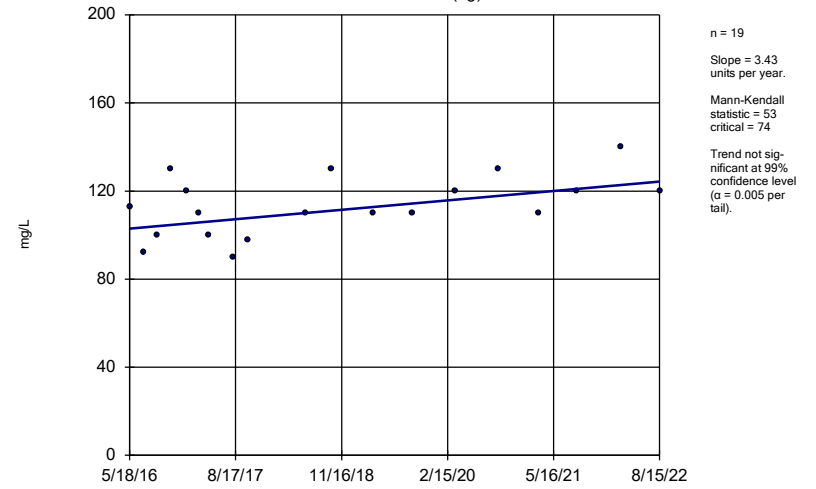
WGWA-5 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

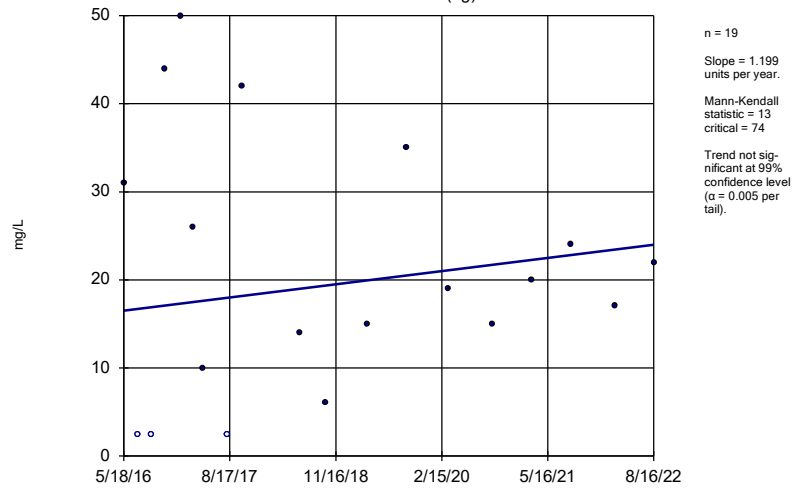
WGWA-6 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

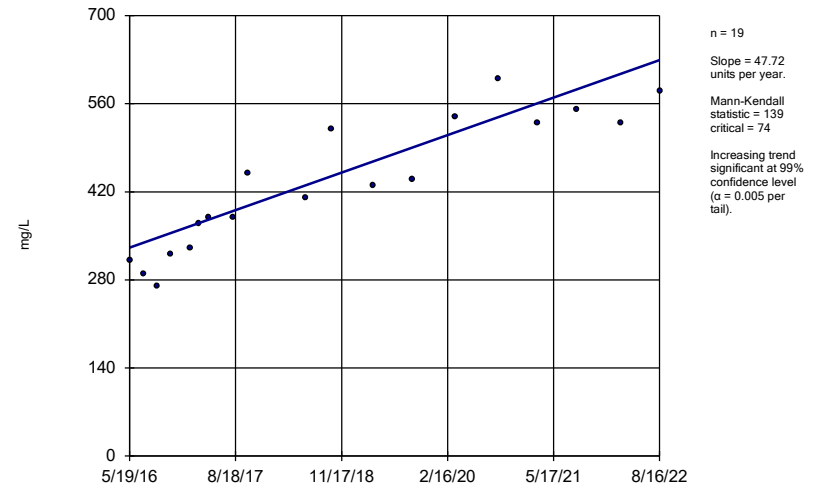
WGWA-7 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/10/2022 2:09 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:30 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	135	n/a	n/a	97.78	n/a	n/a	0.0009833	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	175	n/a	n/a	81.14	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	175	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	175	n/a	n/a	93.71	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	159	n/a	n/a	100	n/a	n/a	0.0002871	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0063	n/a	n/a	n/a	175	n/a	n/a	94.86	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	174	n/a	n/a	46.55	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	172	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	183	n/a	n/a	45.9	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	159	n/a	n/a	88.05	n/a	n/a	0.0002871	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	165	n/a	n/a	50.3	n/a	n/a	0.0002111	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	143	n/a	n/a	90.21	n/a	n/a	0.0006523	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	174	n/a	n/a	90.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	175	n/a	n/a	94.86	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	175	n/a	n/a	92.57	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

FIGURE H.

Confidence Interval - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	WGWC-20	0.01217	0.006673	0.004	Yes	5	0	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0559	0.04846	0.04	Yes	22	0	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	7	0	No	0.008	NP (normality)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00066	0.006	No	5	60	No	0.031	NP (NDs)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	5	40	No	0.031	NP (normality)
Antimony (mg/L)	WGWC-22	0.0009372	0.0005102	0.006	No	5	40	sqrt(x)	0.01	Param.
Antimony (mg/L)	WGWC-23	0.001873	0.0009935	0.006	No	5	40	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.011	0.002	0.006	No	17	94.12	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	17	70.59	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	22	77.27	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	22	86.36	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	22	86.36	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	22	45.45	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	22	68.18	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002061	0.001199	0.01	No	22	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	22	54.55	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00075	0.01	No	22	54.55	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.0008017	0.0001683	0.01	No	5	20	No	0.01	Param.
Arsenic (mg/L)	WGWC-21	0.0008712	0.0001568	0.01	No	5	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.001	0.00029	0.01	No	5	60	No	0.031	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.004016	-0.0005278	0.01	No	5	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-8	0.0009584	0.0005947	0.01	No	22	45.45	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	22	86.36	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.0407	0.03447	2	No	22	0	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04035	0.03263	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.0192	0.01534	2	No	22	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05505	0.04558	2	No	22	0	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04402	0.03045	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02486	0.02074	2	No	22	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05532	0.03863	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	22	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	22	36.36	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.005	0.00091	2	No	5	80	No	0.031	NP (NDs)
Barium (mg/L)	WGWC-21	0.01002	0.003896	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.04408	0.01872	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.009976	0.006704	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04555	0.02325	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4295	0.2985	2	No	5	0	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.005	0.0013	2	No	22	40.91	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00092	2	No	22	40.91	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00032	0.004	No	22	72.73	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	22	95.45	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01217	0.006673	0.004	Yes	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-21	0.0025	0.00022	0.004	No	5	80	No	0.031	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006801	0.0004959	0.004	No	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001267	0.0007093	0.004	No	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01709	0.002349	0.004	No	5	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	5	20	No	0.031	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002143	0.001616	0.004	No	22	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	22	40.91	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	20	95	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00047	0.005	No	20	35	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-20	0.0025	0.00026	0.005	No	5	80	No	0.031	NP (NDs)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	5	60	No	0.031	NP (NDs)
Cadmium (mg/L)	WGWC-24	0.0006362	0.00006777	0.005	No	5	0	No	0.01	Param.
Cadmium (mg/L)	WGWC-25	0.0025	0.00012	0.005	No	5	80	No	0.031	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002333	0.001748	0.1	No	22	13.64	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	22	81.82	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	22	86.36	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	22	95.45	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	22	95.45	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	22	95.45	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001502	0.0007639	0.013	No	22	4.545	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	22	36.36	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001055	0.0004729	0.013	No	22	4.545	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	22	77.27	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.009703	0.004978	0.013	No	22	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	22	95.45	No	0.01	NP (NDs)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	WGWC-16	0.00614	0.0009311	0.013	No	22	18.18	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001645	0.000772	0.013	No	22	9.091	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	22	45.45	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	5	60	No	0.031	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.001	0.00032	0.013	No	5	0	No	0.031	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	5	40	No	0.031	NP (normality)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	5	60	No	0.031	NP (NDs)
Cobalt (mg/L)	WGWC-24	0.1513	0.008309	0.013	No	5	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.005267	0.003453	0.013	No	5	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.00121	0.0004805	0.013	No	22	40.91	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	22	95.45	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4518	0.2003	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6138	0.2096	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5717	0.1977	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7747	0.4888	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8477	0.5607	10.4	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6275	0.3202	10.4	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.643	0.7585	10.4	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5462	0.1628	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5544	0.2064	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.628	0.4832	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.594	0.5994	10.4	No	5	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	8.514	1.79	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.562	-0.0486	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.617	0.4417	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.158	0.3646	10.4	No	5	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.15	1.42	10.4	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4246	0.1743	10.4	No	22	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1697	0.1238	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.055	0.047	4	No	23	56.52	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.098	0.07418	4	No	23	17.39	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2822	0.2025	4	No	23	4.348	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.057	0.048	4	No	23	65.22	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8616	0.7688	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.14	0.061	4	No	23	8.696	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1289	0.08093	4	No	23	4.348	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.374	0.3243	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.278	1.674	4	No	7	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	1.974	1.655	4	No	7	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.101	0.2836	4	No	7	0	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-23	0.09284	0.02916	4	No	7	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.242	0.3811	4	No	7	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.05	0.028	4	No	7	42.86	No	0.008	NP (normality)
Fluoride, total (mg/L)	WGWC-8	0.3302	0.1998	4	No	23	0	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.464	1.152	4	No	23	0	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.015	No	20	50	No	0.01	NP (normality)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	20	80	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	20	95	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	20	40	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00036	0.015	No	20	65	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	20	95	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	20	90	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	20	90	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	20	95	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.0004233	0.0001871	0.015	No	5	20	x^(1/3)	0.01	Param.
Lead (mg/L)	WGWC-24	0.001285	0.0001431	0.015	No	5	0	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	20	65	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	20	95	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01344	0.006792	0.04	No	22	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	22	81.82	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007642	0.006127	0.04	No	22	4.545	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	22	68.18	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	22	59.09	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007202	0.005689	0.04	No	22	9.091	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.009889	0.006284	0.04	No	22	4.545	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005584	0.004716	0.04	No	22	4.545	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0559	0.04846	0.04	Yes	22	0	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	7	0	No	0.008	NP (normality)

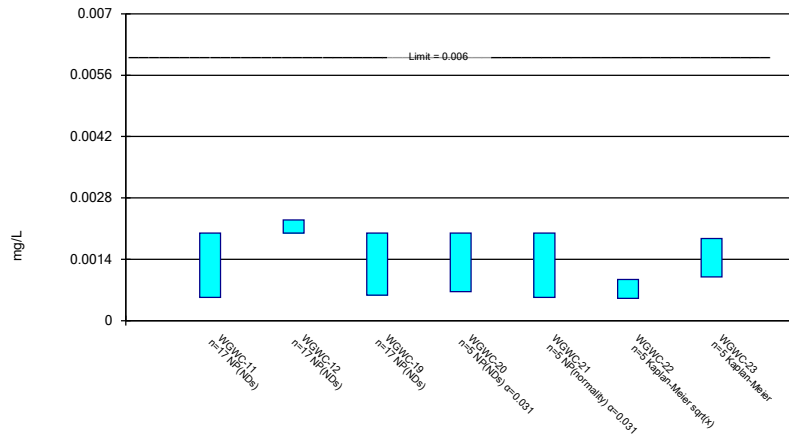
Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/10/2022, 11:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (mg/L)	WGWC-21	0.05467	0.02447	0.04	No	7	0	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0081	0.04	No	7	0	No	0.008	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	7	57.14	No	0.008	NP (NDs)
Lithium (mg/L)	WGWC-24	0.009212	0.004331	0.04	No	7	0	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.00462	0.003608	0.04	No	7	0	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	22	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03742	0.03208	0.04	No	22	0	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	18	77.78	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	18	88.89	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	18	77.78	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	18	88.89	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	18	77.78	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	18	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	18	88.89	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	5	80	No	0.031	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	18	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	18	94.44	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	22	90.91	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	22	90.91	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	22	72.73	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.0028	0.0013	0.1	No	22	13.64	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	22	95.45	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006165	0.003158	0.1	No	22	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.004867	0.002514	0.1	No	22	0	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	22	31.82	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	5	60	No	0.031	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.04627	0.03013	0.1	No	5	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	5	80	No	0.031	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.005705	0.003432	0.1	No	22	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.0102	0.005208	0.05	No	22	4.545	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.002682	0.001031	0.05	No	5	20	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-22	0.007844	0.002876	0.05	No	5	0	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.00257	0.00123	0.05	No	5	0	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	5	80	No	0.031	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	22	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002764	0.002216	0.05	No	22	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	22	95.45	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	22	95.45	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00016	0.002	No	22	50	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	22	45.45	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	22	95.45	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	5	80	No	0.031	NP (NDs)
Thallium (mg/L)	WGWC-24	0.0008165	0.0002875	0.002	No	5	0	No	0.01	Param.

Parametric and Non-Parametric (NP) Confidence Interval

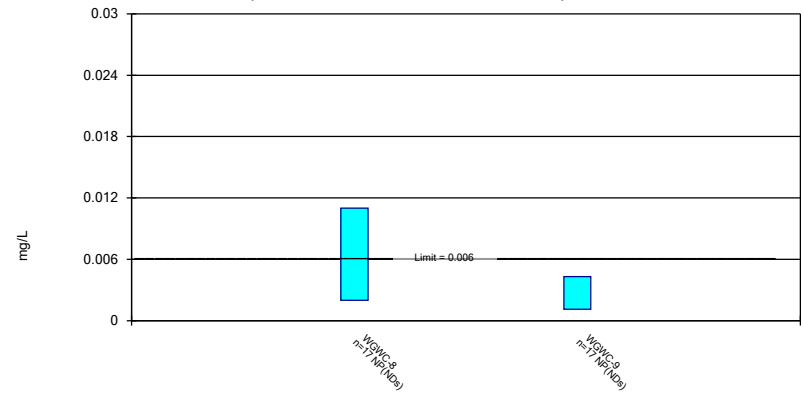
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

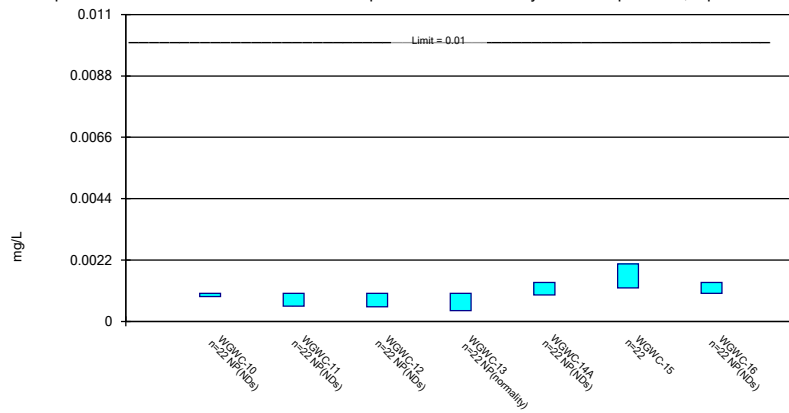
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

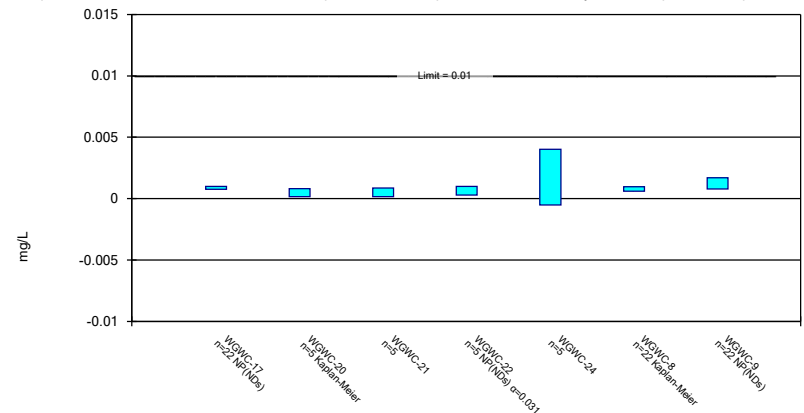
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

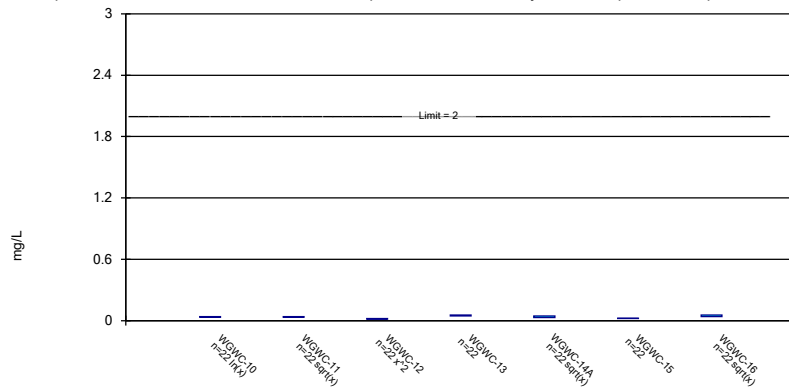
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

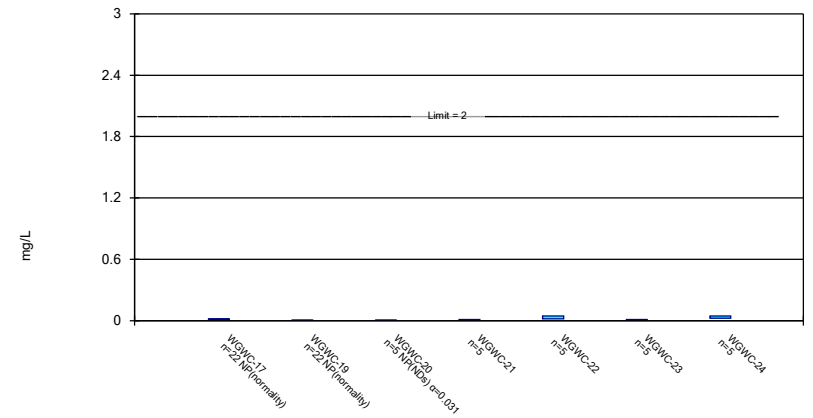
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

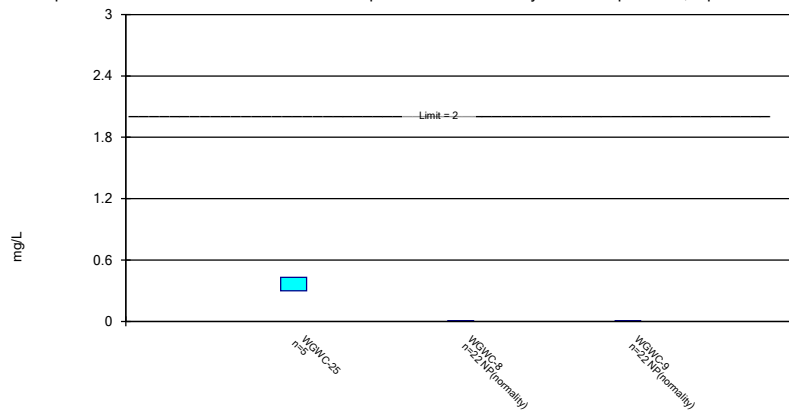
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

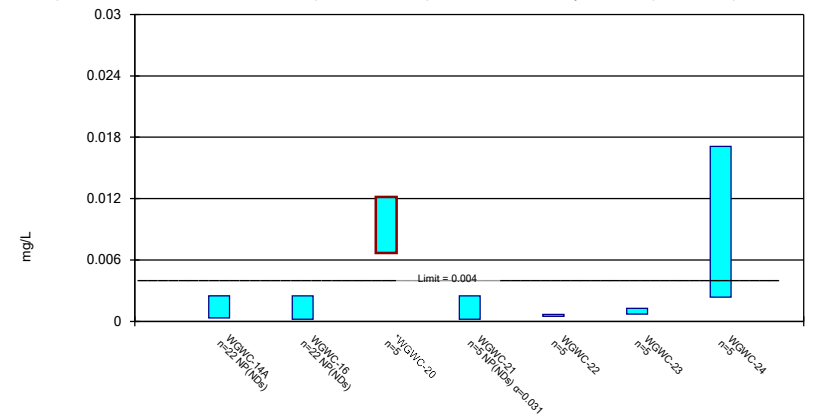
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

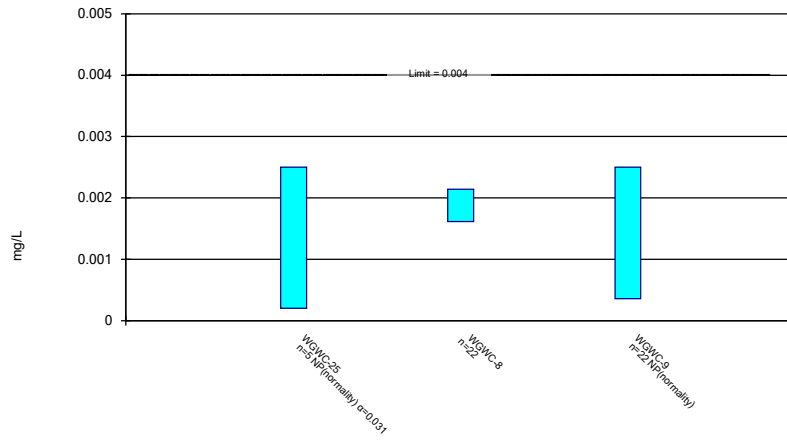
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

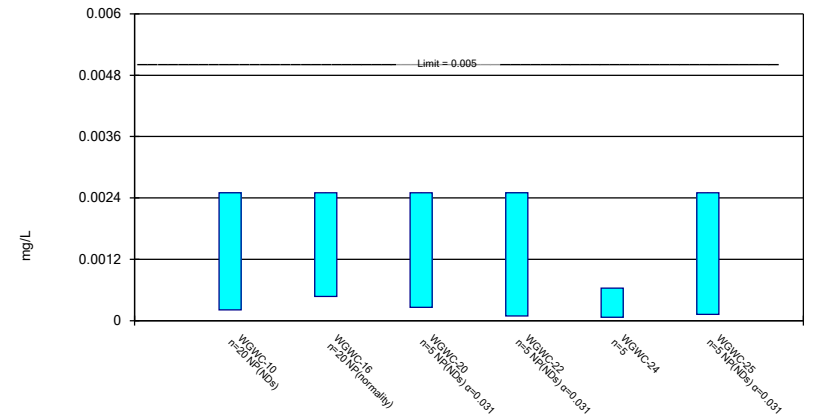
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

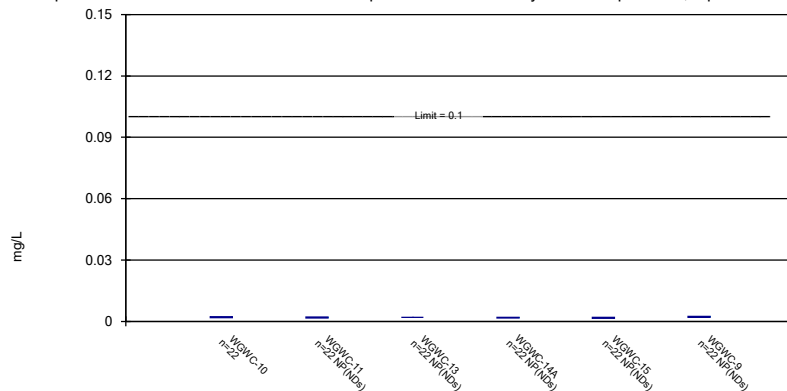
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

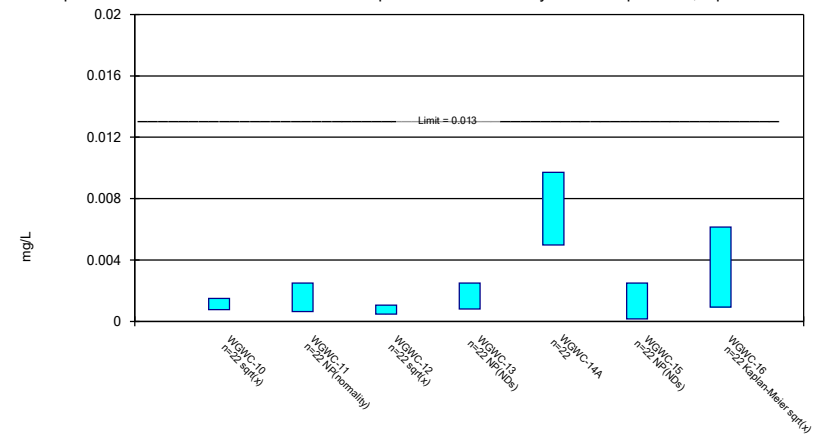
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

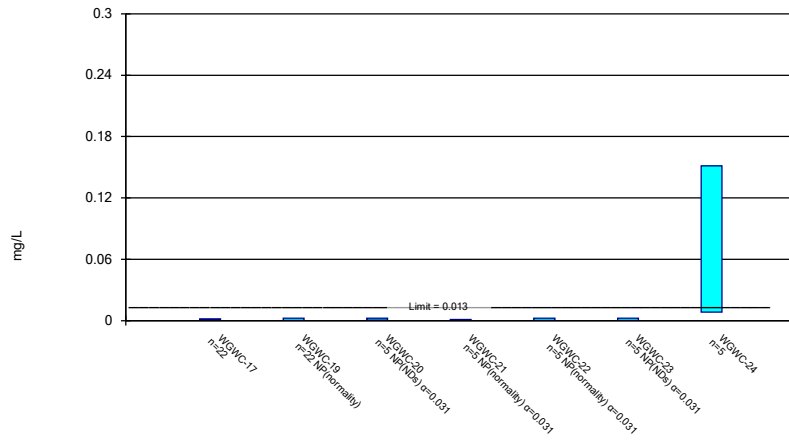
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

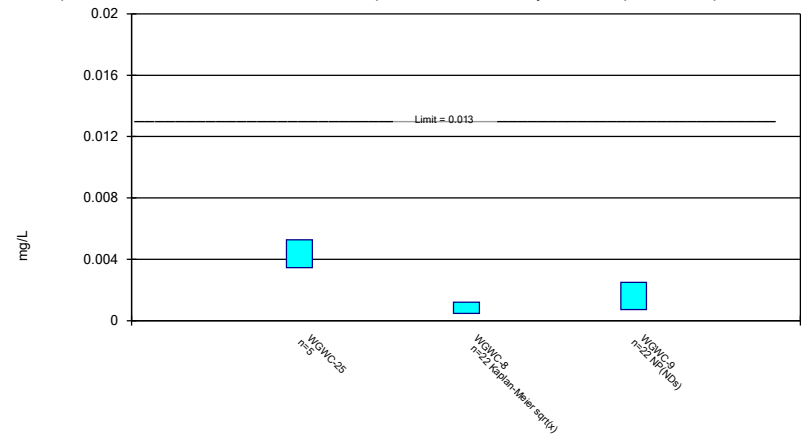
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

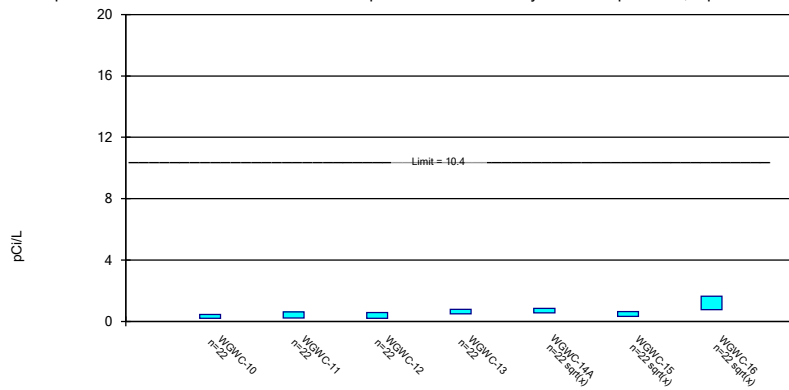
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

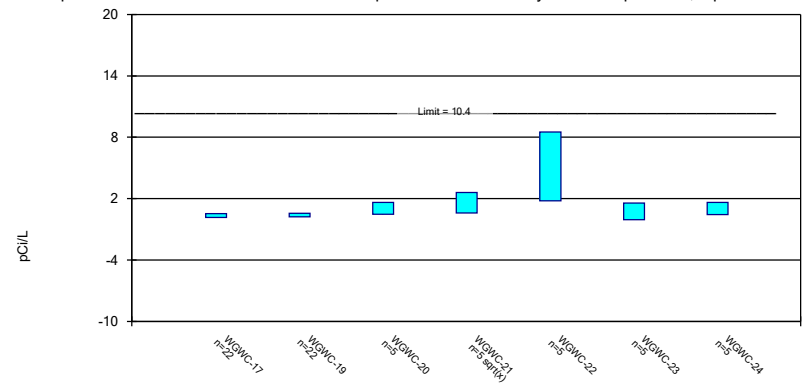
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

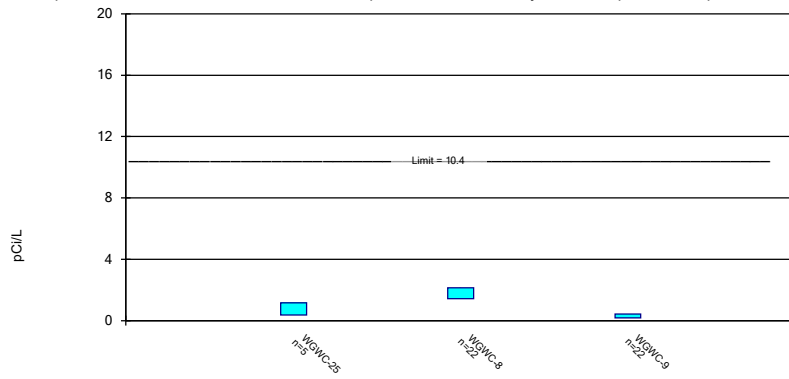
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

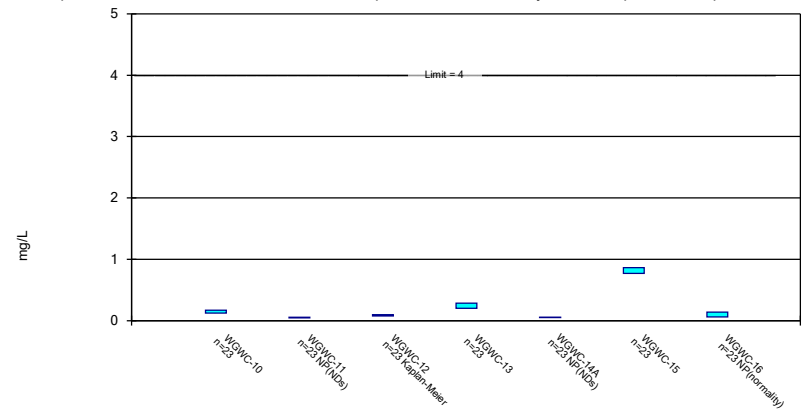
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Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

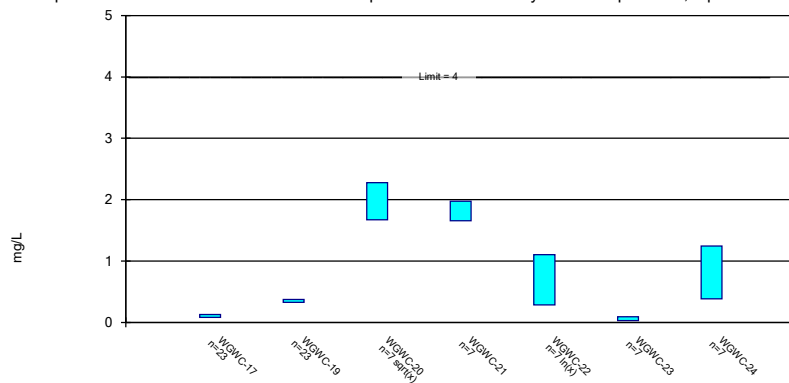
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

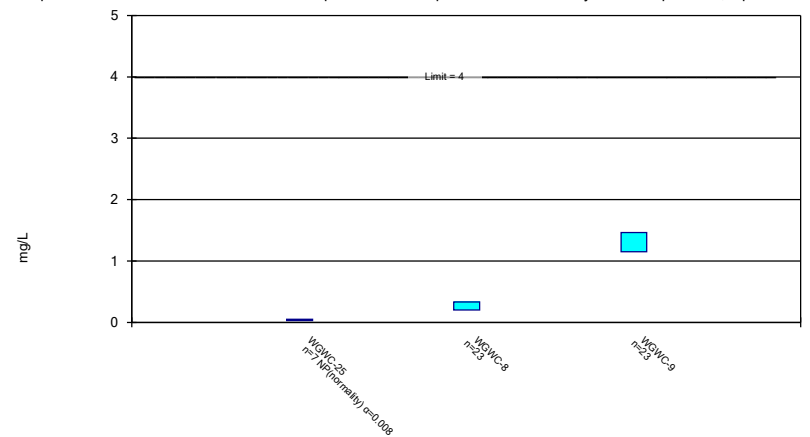
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

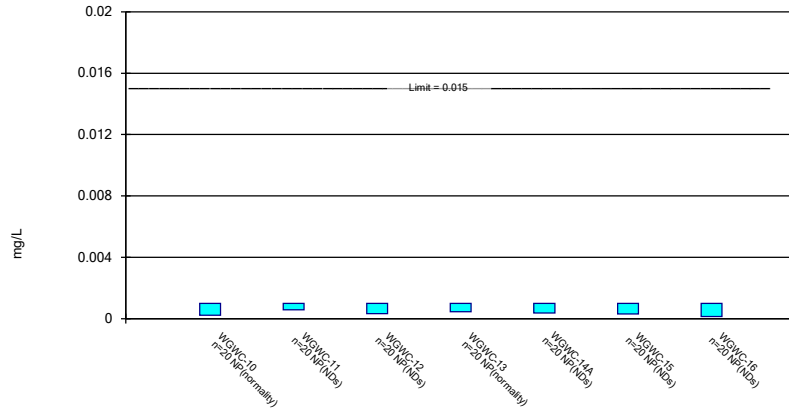
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

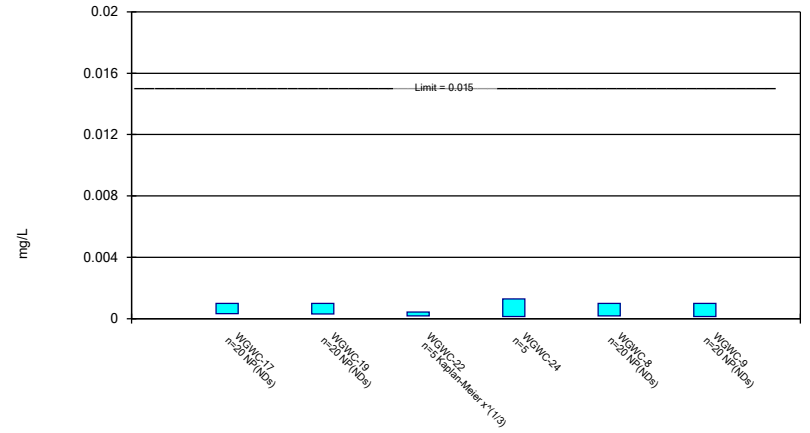
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

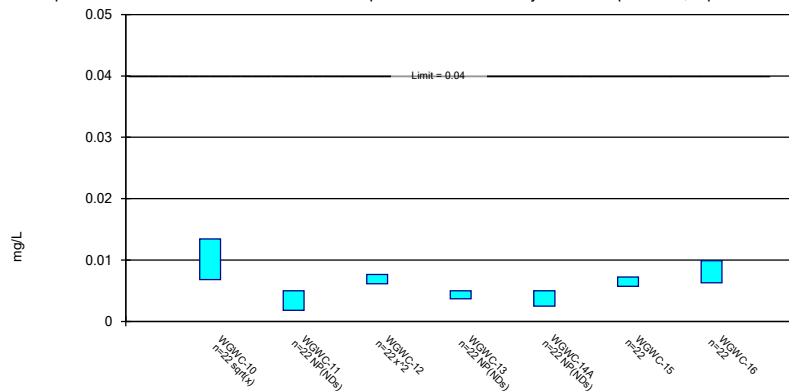
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

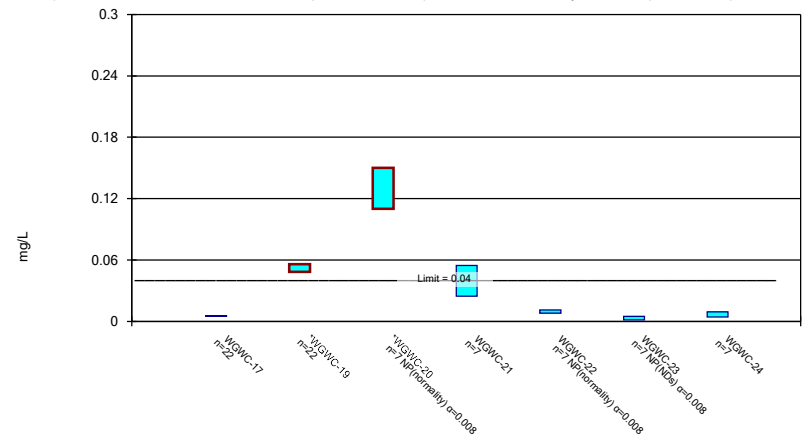
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

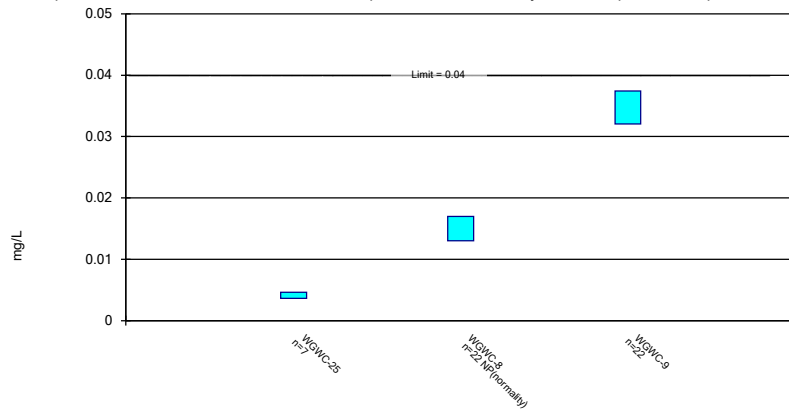
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

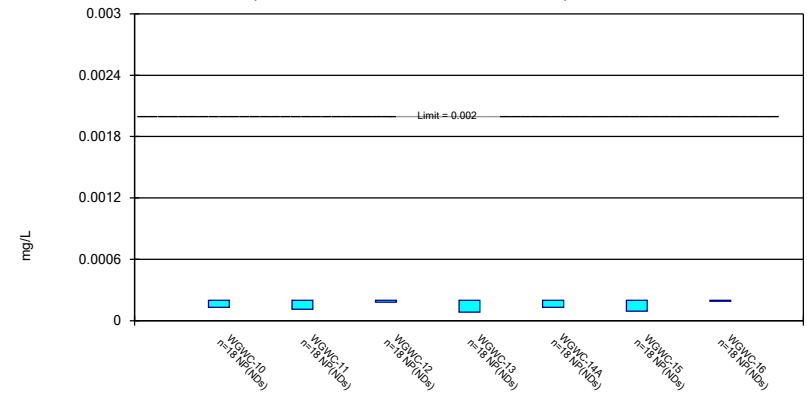
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

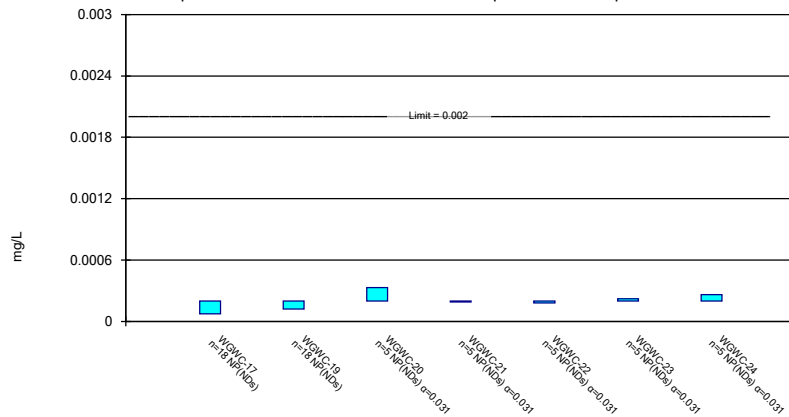
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

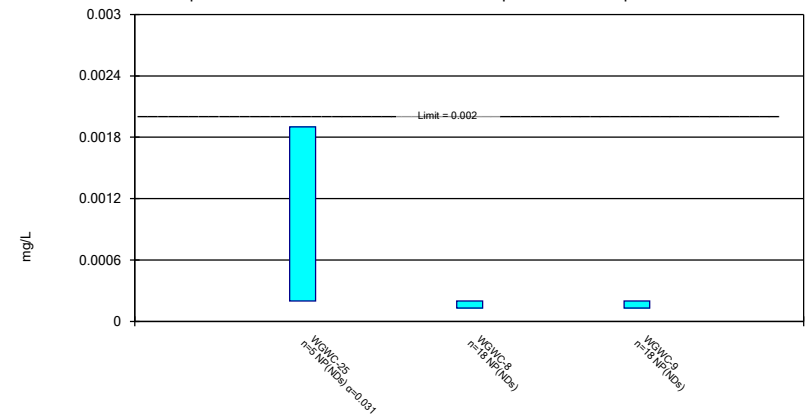
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

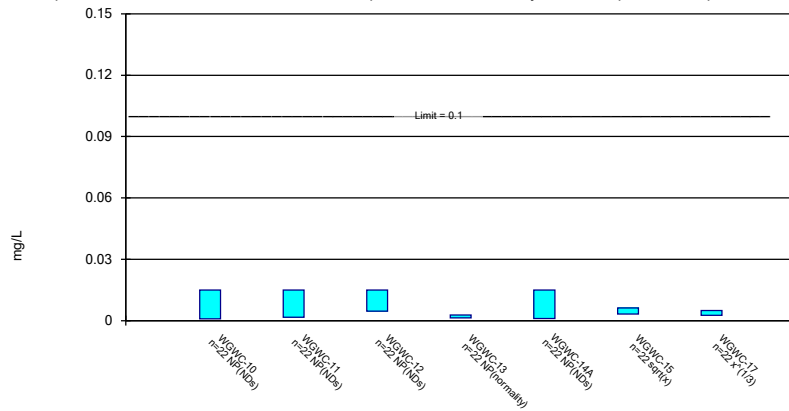
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

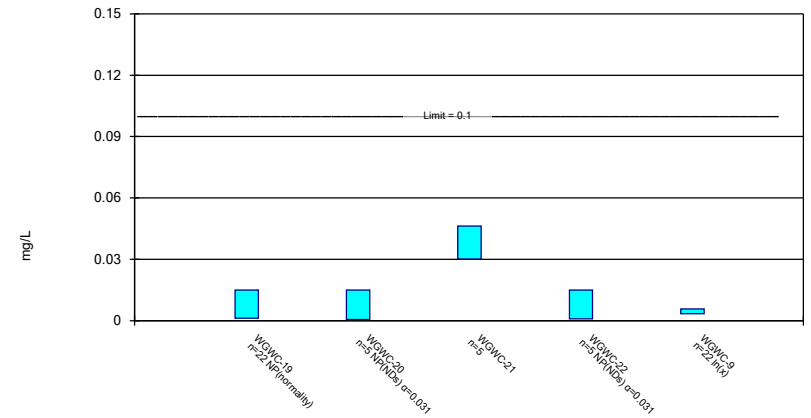
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

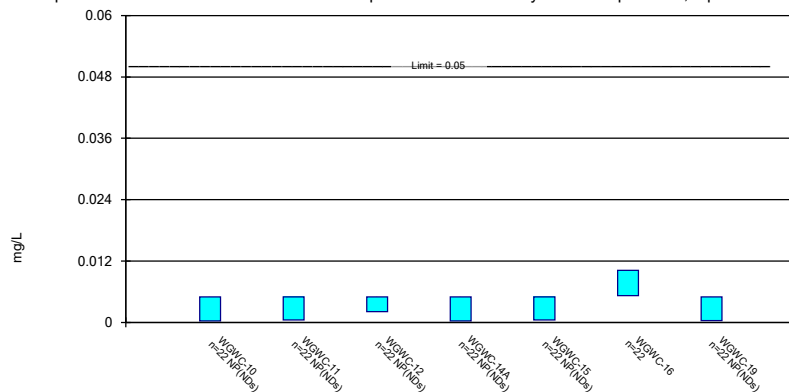
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

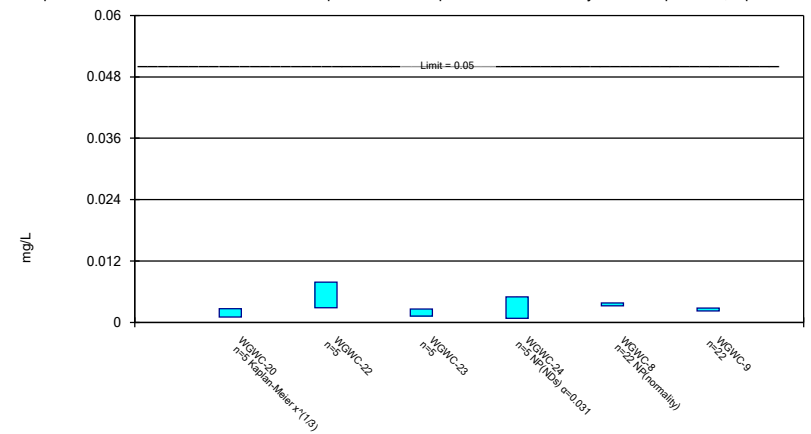
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

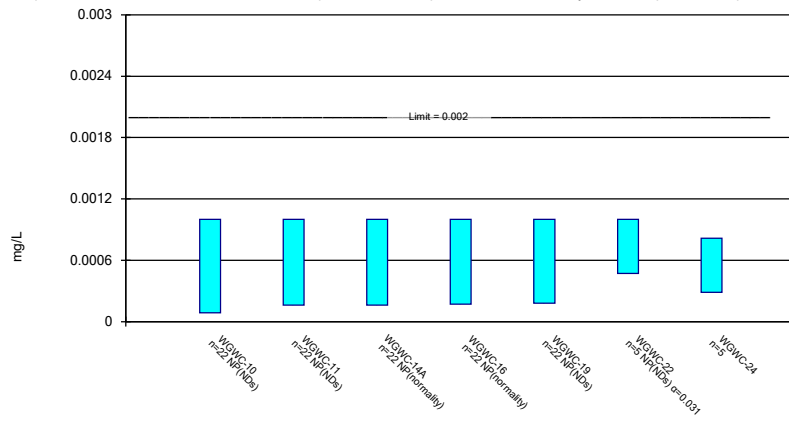
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 11/10/2022 11:39 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-11	WGWC-12	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/19/2016	<0.002	<0.002					
7/20/2016	<0.002	<0.002					
9/14/2016	<0.002	<0.002					
11/11/2016	<0.002	<0.002	<0.002				
1/27/2017	<0.002	<0.002					
2/6/2017			<0.002				
3/15/2017	<0.002	<0.002	<0.002				
4/11/2017			<0.002				
4/26/2017	<0.002	<0.002	<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/10/2017	<0.002	0.0023 (J)	<0.002				
3/29/2018	<0.002	<0.002	<0.002				
2/27/2019	<0.002	<0.002					
2/28/2019			<0.002				
2/5/2020	<0.002	<0.002					
2/7/2020			<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
2/3/2021	<0.002	<0.002	<0.002				
3/11/2021			<0.002				
3/12/2021	<0.002	<0.002					
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002	<0.002
1/11/2022					<0.002	0.00078 (J)	0.0012 (J)
1/12/2022				0.00066 (J)			
3/3/2022	<0.002		<0.002		0.00053 (J)		
3/4/2022		<0.002		0.0011 (J)		0.00082 (J)	0.0018 (J)
6/6/2022					<0.002		0.0013 (J)
6/7/2022				<0.002		0.00054 (J)	
8/16/2022	0.00053 (J)				0.00055 (J)		
8/17/2022			0.00058 (J)				<0.002
8/18/2022		<0.002		<0.002			
8/19/2022						<0.002	
Mean	0.001914	0.002018	0.001916	0.001552	0.001168	0.001228	0.00166
Std. Dev.	0.0003565	7.276E-05	0.0003444	0.0006329	0.0007648	0.0007128	0.0003847
Upper Lim.	0.002	0.0023	0.002	0.002	0.002	0.0009372	0.001873
Lower Lim.	0.00053	0.002	0.00058	0.00066	0.00053	0.0005102	0.0009935

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-8	WGWC-9
5/19/2016	<0.002	<0.002
7/20/2016	<0.002	<0.002
9/14/2016		<0.002
9/15/2016	<0.002	
11/14/2016	<0.002	
2/6/2017	<0.002	
2/9/2017		<0.002
3/15/2017	<0.002	0.0011 (J)
4/11/2017		<0.002
4/26/2017	<0.002	<0.002
8/10/2017	<0.002	<0.002
3/29/2018	<0.002	<0.002
2/27/2019	<0.002	
2/28/2019		<0.002
2/5/2020		<0.002
2/7/2020	<0.002	
3/19/2020	<0.002	0.00041 (J)
2/3/2021	<0.002	
2/4/2021		0.00041 (J)
3/11/2021	<0.002	
3/12/2021		<0.002
8/26/2021	<0.002	<0.002
3/3/2022	<0.002	0.008
8/16/2022	0.011	
8/17/2022		0.0043
Mean	0.002529	0.002248
Std. Dev.	0.002183	0.001698
Upper Lim.	0.011	0.0043
Lower Lim.	0.002	0.0011

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.001					0.00345	<0.001
5/19/2016		<0.001	<0.001	<0.001			
7/19/2016						0.0031	0.0009 (J)
7/20/2016	<0.001	<0.001	<0.001	<0.001			
9/14/2016	<0.001	<0.001	<0.001	<0.001		0.0024	0.0014
11/10/2016				<0.001		0.0023	0.0021
11/11/2016	<0.001	<0.001	<0.001				
1/24/2017						0.0019	0.0015
1/27/2017		0.00047 (J)	<0.001	0.00066 (J)			
2/6/2017	<0.001						
2/8/2017					<0.001		
2/23/2017					<0.001		
3/14/2017						0.0016	
3/15/2017	<0.001	<0.001	<0.001	<0.001			0.0014
3/17/2017					0.0006 (J)		
4/11/2017					0.0032		
4/25/2017						0.0019	0.0014
4/26/2017	<0.001	<0.001	<0.001	<0.001	0.0019		
5/17/2017					0.0014		
6/7/2017					0.0021		
7/11/2017					0.00095 (J)		
8/9/2017				<0.001		0.0017	0.0013
8/10/2017	<0.001	<0.001	0.00048 (J)				
3/29/2018		<0.001	<0.001	0.00067 (J)	<0.001		0.0014
3/30/2018	<0.001					0.0018	
6/14/2018	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002	<0.001
10/3/2018						0.0024	
10/4/2018	0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017		0.0013
2/27/2019	<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015	0.00046 (J)
4/3/2019		<0.001	<0.001	0.00053 (J)	<0.001		
4/4/2019	<0.001					0.0019	<0.001
9/18/2019				0.00039 (J)	<0.001	0.0016	<0.001
9/19/2019	0.00038 (J)	<0.001	<0.001				
2/5/2020	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001		
2/7/2020						0.001	<0.001
3/18/2020	<0.001	<0.001	<0.001			0.00088 (J)	<0.001
3/19/2020				0.00039 (J)	<0.001		
9/23/2020	<0.001		<0.001			0.00061 (J)	<0.001
9/24/2020		0.00051 (J)		<0.001	<0.001		
2/3/2021		<0.001	<0.001				
2/4/2021	<0.001			0.00038 (J)	<0.001	0.00069 (J)	<0.001
3/11/2021	0.00031 (J)			0.00035 (J)	<0.001		<0.001
3/12/2021		<0.001	<0.001			0.00084 (J)	
8/25/2021		<0.001	<0.001	<0.001	<0.001		<0.001
8/26/2021	<0.001					0.0012	
3/3/2022	<0.001	<0.001		<0.001	<0.001	0.00057 (J)	<0.001
3/4/2022			0.00037 (J)				
8/16/2022		<0.001					
8/17/2022						0.00052 (J)	<0.001
8/18/2022			<0.001	0.00034 (J)			
8/19/2022	<0.001				<0.001		
Mean	0.0008832	0.0009327	0.0009259	0.0007718	0.00122	0.00163	0.001144

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
Std. Dev.	0.0002435	0.0001736	0.0001923	0.0003252	0.0005608	0.0008037	0.0003183
Upper Lim.	0.001	0.001	0.001	0.001	0.0014	0.002061	0.0014
Lower Lim.	0.00089	0.00054	0.00052	0.00039	0.00095	0.001199	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-24	WGWC-8	WGWC-9
5/18/2016	<0.001						
5/19/2016						<0.001	<0.001
7/20/2016	0.00058 (J)					0.00055 (J)	0.00078 (J)
9/14/2016	<0.001						<0.001
9/15/2016						<0.001	
11/10/2016	0.00082 (J)						
11/14/2016						<0.001	
1/20/2017	<0.001						
2/6/2017						<0.001	
2/9/2017							0.0017
3/14/2017	<0.001						
3/15/2017						<0.001	0.00047 (J)
4/11/2017							<0.001
4/25/2017	0.00095 (J)						
4/26/2017						<0.001	<0.001
8/9/2017	<0.001						
8/10/2017						<0.001	<0.001
3/29/2018						<0.001	<0.001
3/30/2018	<0.001						
6/14/2018	0.00076 (J)					<0.001	<0.001
10/4/2018	0.00088 (J)					0.0015	<0.001
2/26/2019	0.0005 (J)						
2/27/2019						0.00047 (J)	
2/28/2019							<0.001
4/3/2019						<0.001	<0.001
4/4/2019	<0.001						
9/18/2019	<0.001						
9/19/2019						0.00032 (J)	<0.001
2/5/2020							<0.001
2/7/2020	0.00075 (J)					0.0011	
3/18/2020	0.00054 (J)						
3/19/2020						0.00071 (J)	<0.001
9/22/2020						0.0011	
9/23/2020	0.00067 (J)						<0.001
2/3/2021						0.0013	
2/4/2021	0.00035 (J)						<0.001
3/11/2021	<0.001					0.0009 (J)	
3/12/2021							<0.001
8/25/2021	<0.001						
8/26/2021		0.00031 (J)	0.00057 (J)	<0.001	0.0033	0.0013	<0.001
1/11/2022			0.00036 (J)	<0.001	0.0017		
1/12/2022		0.00052 (J)					
3/3/2022			0.00053 (J)		0.0029	0.0014	<0.001
3/4/2022	<0.001	0.00078 (J)		0.00046 (J)			
6/6/2022			0.00083 (J)		0.00054 (J)		
6/7/2022		0.00033 (J)		0.00029 (J)			
8/16/2022	<0.001		0.00028 (J)			0.00097 (J)	
8/17/2022							<0.001
8/18/2022		<0.001			0.00028 (J)		
8/19/2022				<0.001			
Mean	0.0008545	0.000588	0.000514	0.00075	0.001744	0.0009827	0.0009977
Std. Dev.	0.0002039	0.0002979	0.0002131	0.0003476	0.001356	0.0002798	0.0001975

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-24	WGWC-8	WGWC-9
Upper Lim.	0.001	0.0008017	0.0008712	0.001	0.004016	0.0009584	0.0017
Lower Lim.	0.00075	0.0001683	0.0001568	0.00029	-0.0005278	0.0005947	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.0391					0.0206	0.0715
5/19/2016		0.031	0.0214	0.055			
7/19/2016						0.019	0.069
7/20/2016	0.028	0.029	0.019	0.039			
9/14/2016	0.035	0.031	0.02	0.04		0.02	0.066
11/10/2016				0.04		0.02	0.069
11/11/2016	0.042	0.034	0.022				
1/24/2017						0.017	0.068
1/27/2017		0.042	0.023	0.042			
2/6/2017	0.041						
2/8/2017					0.037		
2/23/2017					0.051		
3/14/2017						0.018	
3/15/2017	0.04	0.032	0.024	0.058			0.065
3/17/2017					0.046		
4/11/2017					0.055		
4/25/2017						0.018	0.057
4/26/2017	0.039	0.03	0.004	0.054	0.042		
5/17/2017					0.052		
6/7/2017					0.06		
7/11/2017					0.038		
8/9/2017				0.055		0.02	0.069
8/10/2017	0.038	0.03	0.017				
3/29/2018		0.028	0.017	0.061	0.028		0.05
3/30/2018	0.042					0.021	
6/14/2018	0.038	0.03	0.015	0.055	0.023	0.022	0.046
10/3/2018						0.024	
10/4/2018	0.04	0.035	0.017	0.046	0.036		0.046
2/27/2019	0.04	0.04	0.016	0.054	0.028	0.023	0.028
4/3/2019		0.035	0.015	0.056	0.026		
4/4/2019	0.04					0.022	0.027
9/18/2019				0.062	0.025	0.026	0.032
9/19/2019	0.038	0.033	0.016				
2/5/2020	0.061	0.047	0.016	0.052	0.077		
2/7/2020						0.022	0.034
3/18/2020	0.035	0.038	0.016			0.021	0.034
3/19/2020				0.072	0.031		
9/23/2020	0.035		0.016			0.027	0.037
9/24/2020		0.061		0.038	0.034		
2/3/2021		0.039	0.015				
2/4/2021	0.035			0.047	0.029	0.028	0.039
3/11/2021	0.033			0.049	0.032		0.037
3/12/2021		0.045	0.017			0.028	
8/25/2021		0.04	0.016	0.046	0.03		0.035
8/26/2021	0.032					0.029	
3/3/2022	0.033	0.04		0.045	0.029	0.029	0.041
3/4/2022			0.016				
8/16/2022		0.038					
8/17/2022						0.027	0.032
8/18/2022			0.014	0.041			
8/19/2022	0.03				0.026		
Mean	0.03791	0.03673	0.01693	0.05032	0.03795	0.0228	0.04784

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
Std. Dev.	0.006451	0.007617	0.004019	0.008823	0.01372	0.003835	0.01584
Upper Lim.	0.0407	0.04035	0.0192	0.05505	0.04402	0.02486	0.05532
Lower Lim.	0.03447	0.03263	0.01534	0.04558	0.03045	0.02074	0.03863

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	0.0219						
7/20/2016	0.019						
9/14/2016	0.017						
11/10/2016	0.02						
11/11/2016		0.0022 (J)					
1/20/2017	0.018						
2/6/2017		0.0018 (J)					
3/14/2017	0.019						
3/15/2017		0.0015 (J)					
4/11/2017		0.0014 (J)					
4/25/2017	0.023						
4/26/2017		0.0014 (J)					
6/7/2017		0.0014 (J)					
7/11/2017		0.0013 (J)					
8/9/2017	0.017						
8/10/2017		0.0012 (J)					
3/29/2018		0.00097 (J)					
3/30/2018	0.015						
6/14/2018	0.013	0.0011 (J)					
10/4/2018	0.013	0.0012 (J)					
2/26/2019	0.012						
2/28/2019		<0.01					
4/2/2019		0.0013 (J)					
4/4/2019	0.011						
9/18/2019	0.011	<0.01					
2/7/2020	0.011	0.0065 (J)					
3/18/2020	0.012						
5/4/2020		<0.01					
9/23/2020	0.012	<0.01					
2/3/2021		<0.01					
2/4/2021	0.012						
3/11/2021	0.011	<0.01					
8/25/2021	0.011						
8/26/2021		<0.01	<0.01	0.0086 (J)	0.031	0.0078 (J)	0.042
1/11/2022				0.0076 (J)	0.04	0.0072 (J)	0.029
1/12/2022			<0.01				
3/3/2022		<0.01		0.0068 (J)			0.028
3/4/2022	0.011		<0.01		0.038	0.0081 (J)	
6/6/2022				0.0079 (J)		0.0097 (J)	0.032
6/7/2022			<0.01		0.025		
8/16/2022	0.011			0.0039 (J)			
8/17/2022		0.0012 (J)				0.0089 (J)	
8/18/2022			0.00091 (J)				0.041
8/19/2022					0.023		
Mean	0.01459	0.00293	0.004182	0.00696	0.0314	0.00834	0.0344
Std. Dev.	0.004011	0.001944	0.001829	0.001828	0.00757	0.0009762	0.006656
Upper Lim.	0.018	0.005	0.005	0.01002	0.04408	0.009976	0.04555
Lower Lim.	0.011	0.0013	0.00091	0.003896	0.01872	0.006704	0.02325

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.0026	<0.01
7/20/2016		0.0017 (J)	0.0014 (J)
9/14/2016			0.00092 (J)
9/15/2016		0.0039	
11/14/2016		0.00085 (J)	
2/6/2017		0.0011 (J)	
2/9/2017			0.0015 (J)
3/15/2017		0.0013 (J)	0.00054 (J)
4/11/2017			0.0007 (J)
4/26/2017		0.00098 (J)	<0.01
8/10/2017		0.0025	0.00053 (J)
3/29/2018		0.00085 (J)	<0.01
6/14/2018		0.0028	0.00088 (J)
10/4/2018		0.0017 (J)	0.00076 (J)
2/27/2019		<0.01	
2/28/2019			0.0023 (J)
4/3/2019		0.001 (J)	<0.01
9/19/2019		<0.01	0.0018 (J)
2/5/2020			0.0022 (J)
2/7/2020		<0.01	
3/19/2020		<0.01	0.0021 (J)
9/22/2020		<0.01	
9/23/2020			<0.01
2/3/2021		<0.01	
2/4/2021			0.0016 (J)
3/11/2021		<0.01	
3/12/2021			<0.01
8/26/2021	0.41	<0.01	<0.01
1/11/2022	0.38		
3/3/2022		<0.01	<0.01
3/4/2022	0.38		
6/7/2022	0.34		
8/16/2022		0.0014 (J)	
8/17/2022	0.31		<0.01
Mean	0.364	0.003076	0.002829
Std. Dev.	0.03912	0.001785	0.001912
Upper Lim.	0.4295	0.005	0.005
Lower Lim.	0.2985	0.0013	0.00092

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016		<0.0025					
7/19/2016		<0.0025					
9/14/2016		<0.0025					
11/10/2016		<0.0025					
1/24/2017		<0.0025					
2/8/2017	<0.0025						
2/23/2017	<0.0025						
3/15/2017		<0.0025					
3/17/2017	<0.0025						
4/11/2017	<0.0025						
4/25/2017		<0.0025					
4/26/2017	<0.0025						
5/17/2017	<0.0025						
6/7/2017	<0.0025						
7/11/2017	<0.0025						
8/9/2017		<0.0025					
3/29/2018	<0.0025	<0.0025					
6/14/2018	<0.0025	<0.0025					
10/4/2018	<0.0025	<0.0025					
2/27/2019	0.00017 (J)	0.00022 (J)					
4/3/2019	<0.0025						
4/4/2019		<0.0025					
9/18/2019	0.00032 (J)	<0.0025					
2/5/2020	0.00024 (J)						
2/7/2020		<0.0025					
3/18/2020		<0.0025					
3/19/2020	0.00025 (J)						
9/23/2020		<0.0025					
9/24/2020	0.00024 (J)						
2/4/2021	0.00026 (J)	<0.0025					
3/11/2021	<0.0025	<0.0025					
8/25/2021	<0.0025	<0.0025					
8/26/2021			0.0081	<0.0025	0.00053 (J)	0.00089 (J)	0.014
1/11/2022				<0.0025	0.00057 (J)	0.0012 (J)	0.014
1/12/2022			0.012				
3/3/2022	<0.0025	<0.0025		<0.0025			0.01
3/4/2022			0.01		0.00066 (J)	0.00097 (J)	
6/6/2022				<0.0025		0.0011 (J)	0.0062
6/7/2022			0.0089		0.00055 (J)		
8/16/2022				0.00022 (J)			
8/17/2022		<0.0025				0.00078 (J)	
8/18/2022			0.0081				0.0044
8/19/2022	<0.0025				0.00063 (J)		
Mean	0.001885	0.002396	0.00942	0.002044	0.000588	0.000988	0.00972
Std. Dev.	0.001027	0.0004861	0.001639	0.00102	5.495E-05	0.0001663	0.004399
Upper Lim.	0.0025	0.0025	0.01217	0.0025	0.0006801	0.001267	0.01709
Lower Lim.	0.00032	0.00022	0.006673	0.00022	0.0004959	0.0007093	0.002349

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.00102 (J)	<0.0025
7/20/2016		0.0014 (J)	<0.0025
9/14/2016			<0.0025
9/15/2016		0.00093 (J)	
11/14/2016		0.0014 (J)	
2/6/2017		0.0017 (J)	
2/9/2017			0.00041 (J)
3/15/2017		0.0016 (J)	<0.0025
4/11/2017			<0.0025
4/26/2017		0.0017 (J)	<0.0025
8/10/2017		0.0017 (J)	0.00034 (J)
3/29/2018		0.0018 (J)	<0.0025
6/14/2018		0.0015 (J)	<0.0025
10/4/2018		0.0019 (J)	0.00036 (J)
2/27/2019		0.0021 (J)	
2/28/2019			0.00031 (J)
4/3/2019		0.0019 (J)	<0.0025
9/19/2019		0.0019	0.00041 (J)
2/5/2020			0.0004 (J)
2/7/2020		0.0023	
3/19/2020		0.0028	0.00056 (J)
9/22/2020		0.0025	
9/23/2020			0.00034 (J)
2/3/2021		0.0025	
2/4/2021			0.00039 (J)
3/11/2021		0.0022 (J)	
3/12/2021			0.00034 (J)
8/26/2021	0.00028 (J)	0.002 (J)	0.00038 (J)
1/11/2022	0.0002 (J)		
3/3/2022		0.0027	0.00036 (J)
3/4/2022	<0.0025		
6/7/2022	0.0003 (J)		
8/16/2022		0.0018 (J)	
8/17/2022	0.00022 (J)		0.00033 (J)
Mean	0.0007	0.00188	0.001247
Std. Dev.	0.001007	0.0004912	0.001068
Upper Lim.	0.0025	0.002143	0.0025
Lower Lim.	0.0002	0.001616	0.00036

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-16	WGWC-20	WGWC-22	WGWC-24	WGWC-25
5/18/2016	<0.0025	0.000362 (J)				
7/19/2016		<0.0025				
7/20/2016	<0.0025					
9/14/2016	<0.0025	0.00037 (J)				
11/10/2016		<0.0025				
11/11/2016	<0.0025					
1/24/2017		0.00055 (J)				
2/6/2017	<0.0025					
3/15/2017	<0.0025	0.00067 (J)				
4/25/2017		0.00058 (J)				
4/26/2017	<0.0025					
8/9/2017		0.00054 (J)				
8/10/2017	<0.0025					
3/29/2018		0.00082 (J)				
3/30/2018	<0.0025					
6/14/2018	<0.0025	0.0007 (J)				
10/4/2018	<0.0025	0.00065 (J)				
2/27/2019	<0.0025	0.00055 (J)				
4/4/2019	<0.0025	0.00047 (J)				
9/18/2019		0.00017 (J)				
9/19/2019	0.00021 (J)					
2/5/2020	<0.0025					
2/7/2020		<0.0025				
3/18/2020	<0.0025	0.00022 (J)				
9/23/2020	<0.0025	<0.0025				
2/4/2021	<0.0025	<0.0025				
8/26/2021			<0.0025	<0.0025	0.00061 (J)	<0.0025
1/11/2022				<0.0025	0.0004 (J)	<0.0025
1/12/2022			0.00026 (J)			
3/3/2022	<0.0025	<0.0025			0.0003 (J)	
3/4/2022			<0.0025	0.00025 (J)		<0.0025
6/6/2022					0.0003 (J)	
6/7/2022			<0.0025	<0.0025		<0.0025
8/17/2022		<0.0025				0.00012 (J)
8/18/2022			<0.0025		0.00015 (J)	
8/19/2022	<0.0025			9E-05 (J)		
Mean	0.002385	0.001208	0.002052	0.001568	0.000352	0.002024
Std. Dev.	0.0005121	0.0009845	0.001002	0.001277	0.0001696	0.001064
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0006362	0.0025
Lower Lim.	0.00021	0.00047	0.00026	9E-05	6.777E-05	0.00012

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-9
5/18/2016	<0.002				<0.002	
5/19/2016		<0.002	<0.002			<0.002
7/19/2016					<0.002	
7/20/2016	0.0012 (J)	<0.002	<0.002			<0.002
9/14/2016	<0.002	<0.002	<0.002		<0.002	<0.002
11/10/2016			<0.002		<0.002	
11/11/2016	0.0015 (J)	<0.002				
1/24/2017					<0.002	
1/27/2017		<0.002	<0.002			
2/6/2017	0.0011 (J)					
2/8/2017				<0.002		
2/9/2017						<0.002
2/23/2017				<0.002		
3/14/2017					<0.002	
3/15/2017	0.0015 (J)	<0.002	<0.002			<0.002
3/17/2017				<0.002		
4/11/2017				<0.002		<0.002
4/25/2017					<0.002	
4/26/2017	0.0013 (J)	0.0011 (J)	<0.002	<0.002		<0.002
5/17/2017				<0.002		
6/7/2017				<0.002		
7/11/2017				<0.002		
8/9/2017			<0.002		<0.002	
8/10/2017	0.0016 (J)	<0.002				<0.002
3/29/2018		0.0012 (J)	<0.002	<0.002		<0.002
3/30/2018	0.0027				<0.002	
6/14/2018	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018					<0.002	
10/4/2018	0.0031	<0.002	<0.002	<0.002		<0.002
2/27/2019	0.0031	0.0021 (J)	0.0018 (J)	<0.002	0.0015 (J)	
2/28/2019						0.0025
4/3/2019		<0.002	<0.002	<0.002		<0.002
4/4/2019	0.0021 (J)				<0.002	
9/18/2019			<0.002	<0.002	<0.002	
9/19/2019	0.0022	<0.002				<0.002
2/5/2020	0.0022	<0.002	<0.002	0.0017 (J)		<0.002
2/7/2020					<0.002	
3/18/2020	<0.002	<0.002			<0.002	
3/19/2020			<0.002	<0.002		<0.002
9/23/2020	0.0018 (J)				<0.002	<0.002
9/24/2020		<0.002	<0.002	<0.002		
2/3/2021		<0.002				
2/4/2021	0.0018 (J)		<0.002	<0.002	<0.002	<0.002
3/11/2021	0.0023		0.0019 (J)	<0.002		
3/12/2021		0.0017 (J)			<0.002	<0.002
8/25/2021		<0.002	0.0017 (J)	<0.002		
8/26/2021	0.0024				<0.002	<0.002
3/3/2022	0.0023	<0.002	<0.002	<0.002	<0.002	<0.002
8/16/2022		<0.002				
8/17/2022					<0.002	<0.002
8/18/2022			<0.002			
8/19/2022	0.0024			<0.002		

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-9
Mean	0.002041	0.001914	0.001973	0.001986	0.001977	0.002023
Std. Dev.	0.0005448	0.0002569	7.673E-05	6.396E-05	0.0001066	0.0001066
Upper Lim.	0.002333	0.0021	0.002	0.002	0.002	0.0025
Lower Lim.	0.001748	0.0017	0.0019	0.0017	0.0015	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.00201 (J)					<0.0025	0.0069
5/19/2016		<0.0025	<0.0025	<0.0025			
7/19/2016						<0.0025	0.012
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0025			
9/14/2016	0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025	0.013
11/10/2016				<0.0025		<0.0025	0.016
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)				
1/24/2017						<0.0025	0.015
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0025			
2/6/2017	0.00072 (J)						
2/8/2017					0.0051		
2/23/2017					0.014		
3/14/2017						<0.0025	
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025			0.014
3/17/2017					0.013		
4/11/2017					0.016		
4/25/2017						<0.0025	0.014
4/26/2017	0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01		
5/17/2017					0.011		
6/7/2017					0.01		
7/11/2017					0.0085		
8/9/2017				0.0004 (J)		<0.0025	0.016
8/10/2017	<0.0025	0.0011 (J)	0.00049 (J)				
3/29/2018		<0.0025	0.0008 (J)	0.0008 (J)	0.015		0.0092
3/30/2018	0.0035					<0.0025	
6/14/2018	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025	0.0035
10/3/2018						<0.0025	
10/4/2018	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055		0.0078
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025	0.00084 (J)
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0025	0.0056		
4/4/2019	0.0017 (J)					<0.0025	0.00077 (J)
9/18/2019				<0.0025	0.005	<0.0025	0.00011 (J)
9/19/2019	0.0023	<0.0025	0.00028 (J)				
2/5/2020	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044		
2/7/2020						<0.0025	0.00016 (J)
3/18/2020	0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025	0.00016 (J)
3/19/2020				<0.0025	0.0039		
9/23/2020	0.00062 (J)		0.00039 (J)			<0.0025	<0.0025
9/24/2020		<0.0025		0.00032 (J)	0.0035		
2/3/2021		0.00072 (J)	0.00017 (J)				
2/4/2021	0.00059 (J)			<0.0025	0.0041	0.00015 (J)	0.00026 (J)
3/11/2021	0.00058 (J)			<0.0025	0.0037		0.00013 (J)
3/12/2021		0.0022 (J)	0.00042 (J)			<0.0025	
8/25/2021		0.00045 (J)	0.0005 (J)	<0.0025	0.0029		<0.0025
8/26/2021	0.00044 (J)					<0.0025	
3/3/2022	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025	<0.0025
3/4/2022			0.00056 (J)				
8/16/2022		<0.0025					
8/17/2022						<0.0025	<0.0025
8/18/2022			0.00034 (J)	<0.0025			
8/19/2022	0.0014 (J)				0.002 (J)		
Mean	0.001205	0.001538	0.0008305	0.002031	0.007341	0.002393	0.006356

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
Std. Dev.	0.0007863	0.0009511	0.0006377	0.0008912	0.004401	0.000501	0.006114
Upper Lim.	0.001502	0.0025	0.001055	0.0025	0.009703	0.0025	0.00614
Lower Lim.	0.0007639	0.00064	0.0004729	0.0008	0.004978	0.00015	0.0009311

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	0.00245 (J)						
7/20/2016	0.0018 (J)						
9/14/2016	0.0014 (J)						
11/10/2016	0.0016 (J)						
11/11/2016		<0.0025					
1/20/2017	0.0014 (J)						
2/6/2017		0.00058 (J)					
3/14/2017	0.0023 (J)						
3/15/2017		0.00045 (J)					
4/11/2017		<0.0025					
4/25/2017	0.0023 (J)						
4/26/2017		<0.0025					
6/7/2017		<0.0025					
7/11/2017		<0.0025					
8/9/2017	0.0011 (J)						
8/10/2017		0.00049 (J)					
3/29/2018		<0.0025					
3/30/2018	0.0016 (J)						
6/14/2018	0.00055 (J)	<0.0025					
10/4/2018	0.00041 (J)	<0.0025					
2/26/2019	0.00086 (J)						
2/28/2019		0.00019 (J)					
4/2/2019		<0.0025					
4/4/2019	<0.0025						
9/18/2019	0.00018 (J)	0.00045 (J)					
2/7/2020	0.00077	0.00024 (J)					
3/18/2020	0.00052 (J)						
5/4/2020		0.00018 (J)					
9/23/2020	0.0009 (J)	0.00024 (J)					
2/3/2021		0.00025 (J)					
2/4/2021	0.00042 (J)						
3/11/2021	0.00035 (J)	0.00022 (J)					
8/25/2021	0.00042 (J)						
8/26/2021		0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)	0.00017 (J)	0.13
1/11/2022				0.00032 (J)	0.00025 (J)	0.00016 (J)	0.11
1/12/2022			0.00037 (J)				
3/3/2022		0.00034 (J)		0.00042 (J)			0.086
3/4/2022	0.00026 (J)		<0.0025		0.00034 (J)	<0.0025	
6/6/2022				0.001 (J)		<0.0025	0.042
6/7/2022			<0.0025		<0.0025		
8/16/2022	<0.0025			0.00039 (J)			
8/17/2022		<0.0025				<0.0025	
8/18/2022			<0.0025				0.031
8/19/2022					<0.0025		
Mean	0.001209	0.001311	0.001666	0.00051	0.001194	0.001566	0.0798
Std. Dev.	0.0008134	0.001115	0.001142	0.0002769	0.001193	0.001279	0.04266
Upper Lim.	0.001645	0.0025	0.0025	0.001	0.0025	0.0025	0.1513
Lower Lim.	0.000772	0.00024	0.00037	0.00032	0.00025	0.00016	0.008309

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		<0.0025	<0.0025
7/20/2016		<0.0025	<0.0025
9/14/2016			<0.0025
9/15/2016		<0.0025	
11/14/2016		<0.0025	
2/6/2017		<0.0025	
2/9/2017			0.00073 (J)
3/15/2017		<0.0025	<0.0025
4/11/2017			<0.0025
4/26/2017		<0.0025	<0.0025
8/10/2017		<0.0025	<0.0025
3/29/2018		0.00066 (J)	<0.0025
6/14/2018		0.0011 (J)	<0.0025
10/4/2018		<0.0025	<0.0025
2/27/2019		0.0019 (J)	
2/28/2019			<0.0025
4/3/2019		0.0037	<0.0025
9/19/2019		0.0028	<0.0025
2/5/2020			<0.0025
2/7/2020		0.0011	
3/19/2020		0.00092 (J)	<0.0025
9/22/2020		0.00065 (J)	
9/23/2020			<0.0025
2/3/2021		0.00014 (J)	
2/4/2021			<0.0025
3/11/2021		0.00043 (J)	
3/12/2021			<0.0025
8/26/2021	0.005	0.0005 (J)	<0.0025
1/11/2022	0.0048		
3/3/2022		0.0003 (J)	<0.0025
3/4/2022	0.004		
6/7/2022	0.0043		
8/16/2022		0.00075 (J)	
8/17/2022	0.0037		<0.0025
Mean	0.00436	0.001702	0.00242
Std. Dev.	0.0005413	0.001044	0.0003774
Upper Lim.	0.005267	0.00121	0.0025
Lower Lim.	0.003453	0.0004805	0.00073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.182 (U)					0.569	1.03
5/19/2016		0.431 (U)	0.0698 (U)	0.219 (U)			
7/19/2016						0.29 (U)	2.39
7/20/2016	-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)			
9/14/2016	0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)	3.05
11/10/2016				1		0.709	2.87
11/11/2016	0.542	0.0257 (U)	0.467				
1/24/2017						0.779	2.68
1/27/2017		0.898	0.836	0.668			
2/6/2017	0.104 (U)						
2/8/2017					0.958		
2/23/2017					0.771		
3/14/2017						0.247 (U)	
3/15/2017	0.523	0.121 (U)	0.254 (U)	0.847			1.64
3/17/2017					1.7		
4/11/2017					0.901		
4/25/2017						0.515	0.878
4/26/2017	0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434		
5/17/2017					0.632		
6/7/2017					1.06		
7/11/2017					0.716		
8/9/2017				0.816		1.7	2.5
8/10/2017	0.189 (U)	0.326 (U)	0.912				
3/29/2018		0.461	0.419	0.51	0.58		1.6
3/30/2018	0.575					0.0985 (U)	
6/14/2018	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)	1.09
10/3/2018						0.766	
10/4/2018	0.84	1.18	1.29	0.99	0.563		1.99
2/27/2019	0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)	0.721
4/3/2019		0.187 (U)	0.264 (U)	0.446	0.497		
4/4/2019	0.233 (U)					0.418	0.632
9/18/2019				0.392	0.376 (U)	0.484	0.278 (U)
9/19/2019	0.124 (U)	0.338 (U)	0.329 (U)				
2/5/2020	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5		
2/7/2020						0.125 (U)	0.797
3/18/2020	0.461 (U)	0.866	-0.0262 (U)			0.303 (U)	0.437
3/19/2020				0.47	0.376 (U)		
9/23/2020	0.442 (U)		0.785			0.448 (U)	0.276 (U)
9/24/2020		1.2		1.02	0.796		
2/3/2021		0.718	0.322 (U)				
2/4/2021	0.0332 (U)			0.139 (U)	0.564	0.488 (U)	0.727
3/11/2021	0.42 (U)			0.473	0.764		0.942
3/12/2021		0.0729 (U)	0.633			0.591	
8/25/2021		0.401	0.443 (U)	0.913	0.705		0.518
8/26/2021	0.321 (U)					0.678	
3/3/2022	0.587	0.622		0.621	0.956	0.358 (U)	0.573
3/4/2022			0.408				
8/16/2022		0.5					
8/17/2022						0.563	0.946
8/18/2022			0.279 (U)	0.719			
8/19/2022	0.497 (U)				0.932		
Mean	0.3261	0.4117	0.3847	0.6318	0.7213	0.5034	1.298

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
Std. Dev.	0.2342	0.3765	0.3484	0.2664	0.2953	0.3305	0.8899
Upper Lim.	0.4518	0.6138	0.5717	0.7747	0.8477	0.6275	1.643
Lower Lim.	0.2003	0.2096	0.1977	0.4888	0.5607	0.3202	0.7585

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	0.116 (U)						
7/20/2016	0.247 (U)						
9/14/2016	0.594						
11/10/2016	0.431						
11/11/2016		-0.11 (U)					
1/20/2017	1.35						
2/6/2017		0.471					
3/14/2017	-0.107 (U)						
3/15/2017		0.255 (U)					
4/11/2017		0.19 (U)					
4/25/2017	0.228 (U)						
4/26/2017		0.22 (U)					
6/7/2017		0.126 (U)					
7/11/2017		0.511					
8/9/2017	-0.0246 (U)						
8/10/2017		0.882					
3/29/2018		0.252 (U)					
3/30/2018	0.135 (U)						
6/14/2018	-0.373 (U)	0.0458 (U)					
10/4/2018	0.775	0.381					
2/26/2019	0.431						
2/28/2019		0.254 (U)					
4/2/2019		0.209 (U)					
4/4/2019	0.386						
9/18/2019	0.167 (U)	0.403 (U)					
2/7/2020	0.244 (U)	0.2 (U)					
3/18/2020	0.0655 (U)						
5/4/2020		0.0697 (U)					
9/23/2020	0.643	1.18					
2/3/2021		0.684					
2/4/2021	0.438 (U)						
3/11/2021	0.247 (U)	0.286 (U)					
8/25/2021	0.565						
8/26/2021		0.796	1.6	1.17	3.54	0.703	1.63
1/11/2022				0.919	6.91	0.218 (U)	0.749
1/12/2022			1.09				
3/3/2022		0.909		1.31			0.893
3/4/2022	0.573		0.925		7.57	0.437 (U)	
6/6/2022				2.61		1.45	0.845
6/7/2022			0.67		4.67		
8/16/2022	0.668			1.35			
8/17/2022		0.155 (U)				0.976	
8/18/2022			0.994				1.03
8/19/2022					3.07		
Mean	0.3545	0.3804	1.056	1.472	5.152	0.7568	1.029
Std. Dev.	0.3572	0.3242	0.3417	0.6583	2.006	0.4806	0.3507
Upper Lim.	0.5462	0.5544	1.628	2.594	8.514	1.562	1.617
Lower Lim.	0.1628	0.2064	0.4832	0.5994	1.79	-0.0486	0.4417

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.711 (U)	0.209 (U)
7/20/2016		1.14	-0.084 (U)
9/14/2016			0.42 (U)
9/15/2016		1.26	
11/14/2016		0.749	
2/6/2017		1.05	
2/9/2017			0.393
3/15/2017		1.32	0.271 (U)
4/11/2017			0.488 (U)
4/26/2017		1.07	0.14 (U)
8/10/2017		1.88	0.379
3/29/2018		2.31	0.278 (U)
6/14/2018		1.86	0.157 (U)
10/4/2018		2.44	0.48
2/27/2019		2.42	
2/28/2019			0.271 (U)
4/3/2019		1.55	0.0621 (U)
9/19/2019		2.06	0.537
2/5/2020			-0.137 (U)
2/7/2020		1.66	
3/19/2020		1.21	0.23 (U)
9/22/2020		1.75	
9/23/2020			0.0587 (U)
2/3/2021		2	
2/4/2021			0.353 (U)
3/11/2021		2.38	
3/12/2021			0.831
8/26/2021	1.12	2.87	0.681
1/11/2022	0.606		
3/3/2022		3.18	0.431 (U)
3/4/2022	0.818		
6/7/2022	0.5		
8/16/2022		2.4	
8/17/2022	0.763		0.139 (U)
Mean	0.7614	1.785	0.2994
Std. Dev.	0.2368	0.6792	0.2331
Upper Lim.	1.158	2.15	0.4246
Lower Lim.	0.3646	1.42	0.1743

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.206					0.779	0.1 (J)
5/19/2016		0.039 (J)	0.12 (J)	0.384			
7/19/2016						0.97	0.14 (J)
7/20/2016	0.23	<0.1	0.11 (J)	0.34			
9/14/2016	0.17 (J)	<0.1	0.095 (J)	0.31		0.89	0.18 (J)
11/10/2016				0.26		0.88	0.11 (J)
11/11/2016	0.14 (J)	<0.1	<0.1				
1/24/2017						0.92	0.15 (J)
1/27/2017		<0.1	<0.1	0.28			
2/6/2017	0.15 (J)						
2/8/2017					<0.1		
2/23/2017					<0.1		
3/14/2017						0.77	
3/15/2017	0.16 (J)	<0.1	<0.1	0.3			0.1 (J)
3/17/2017					<0.1		
4/11/2017					<0.1		
4/25/2017						0.95	0.13 (J)
4/26/2017	0.17 (J)	<0.1	<0.1	0.33	<0.1		
5/17/2017					<0.1		
6/7/2017					<0.1		
7/11/2017					<0.1		
8/9/2017				0.32		0.91	0.18 (J)
8/10/2017	0.2	<0.1	0.11 (J)				
10/11/2017					<0.1	0.88	<0.1
10/12/2017	0.14 (J)	<0.1	0.091 (J)	0.28			
3/29/2018		<0.1	0.089 (J)	0.27	<0.1		0.13 (J)
3/30/2018	0.13 (J)					0.79	
6/14/2018	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79	<0.1
10/3/2018						0.79	
10/4/2018	0.18 (J)	<0.1	0.12 (J)	0.23	<0.1		0.85 (J)
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81	0.47
4/3/2019		0.048 (J)	0.084 (J)	0.24	0.048 (J)		
4/4/2019	0.13 (J)					0.78	0.08 (J)
9/18/2019				0.22	0.035 (J)	0.81	0.058 (J)
9/19/2019	0.13 (J)	0.037 (J)	0.093 (J)				
2/5/2020	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)		
2/7/2020						0.79	0.072 (J)
3/18/2020	0.052 (J)	<0.1	0.033 (J)			0.71	0.084 (J)
3/19/2020				0.15	<0.1		
9/23/2020	0.09 (J)		0.064 (J)			0.63	0.049 (J)
9/24/2020		0.18		<0.1	0.028 (J)		
2/3/2021		0.027 (J)	0.082 (J)				
2/4/2021	0.12			0.16	0.033 (J)	0.69	0.052 (J)
3/11/2021	0.15			0.18	0.04 (J)		0.061 (J)
3/12/2021		0.044 (J)	0.096 (J)			0.88	
8/25/2021		0.056 (J)	0.14	0.2	0.071 (J)		0.099 (J)
8/26/2021	0.16					0.77	
3/3/2022	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88	0.067 (J)
3/4/2022			0.068 (J)				
8/16/2022		<0.1					
8/17/2022						0.68	0.062 (J)
8/18/2022			0.073 (J)	0.14			

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
8/19/2022	0.1				<0.1		
Mean	0.1467	0.05339	0.08374	0.2423	0.04791	0.8152	0.1445
Std. Dev.	0.04384	0.02828	0.02741	0.07625	0.008506	0.08869	0.1771
Upper Lim.	0.1697	0.055	0.098	0.2822	0.057	0.8616	0.14
Lower Lim.	0.1238	0.047	0.07418	0.2025	0.048	0.7688	0.061

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	0.121 (J)						
7/20/2016	0.16 (J)						
9/14/2016	0.19 (J)						
11/10/2016	0.15 (J)						
11/11/2016		0.32					
1/20/2017	0.18 (J)						
2/6/2017		0.45					
3/14/2017	0.11 (J)						
3/15/2017		0.37					
4/11/2017		0.37					
4/25/2017	0.13 (J)						
4/26/2017		0.4					
6/7/2017		0.35					
7/11/2017		0.39					
8/9/2017	0.19 (J)						
8/10/2017		0.42					
10/11/2017	0.14 (J)						
10/12/2017		0.36					
3/29/2018		0.34					
3/30/2018	0.095 (J)						
6/14/2018	0.11 (J)	0.35					
10/4/2018	0.11 (J)	0.35					
2/26/2019	0.068 (J)						
2/28/2019		0.28					
4/2/2019		0.33					
4/4/2019	0.087 (J)						
9/18/2019	0.066 (J)	0.32					
2/7/2020	0.079 (J)	0.35					
3/18/2020	<0.1						
5/4/2020		0.36					
9/23/2020	0.05 (J)	0.25					
2/3/2021		0.3					
2/4/2021	0.064 (J)						
3/8/2021			1.8				
3/9/2021				1.7	1.1	0.092 (J)	1
3/11/2021	0.05 (J)	0.31					
4/7/2021				1.6		0.093 (J)	1.1
4/8/2021			1.7		1.4		
8/25/2021	0.093 (J)						
8/26/2021		0.38	2	2	0.51	0.081 (J)	1.2
1/11/2022				1.9	0.45	0.045 (J)	1
1/12/2022			1.8				
3/3/2022		0.4		1.8			0.71
3/4/2022	0.06 (J)		2		0.42	0.045 (J)	
6/6/2022				1.9		0.028 (J)	0.43
6/7/2022			2.5		0.37		
8/16/2022	0.06 (J)			1.8			
8/17/2022		0.28				0.043 (J)	
8/18/2022			2				0.24
8/19/2022					0.31		
Mean	0.1049	0.3491	1.971	1.814	0.6514	0.061	0.8114
Std. Dev.	0.04585	0.04747	0.2628	0.1345	0.4226	0.0268	0.3623

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
Upper Lim.	0.1289	0.374	2.278	1.974	1.101	0.09284	1.242
Lower Lim.	0.08093	0.3243	1.674	1.655	0.2836	0.02916	0.3811

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.304	1.58
7/20/2016		0.27	2
9/14/2016			1.8
9/15/2016		0.24	
11/14/2016		0.2	
2/6/2017		0.27	
2/9/2017			1.3
3/15/2017		0.25	1.3
4/11/2017			1.4
4/26/2017		0.31	1.5
8/10/2017		0.37	1.6
10/12/2017		0.35	1.5
3/29/2018		0.36	1.4
6/14/2018		0.56	1.4
10/4/2018		0.27	1.4
2/27/2019		0.054 (J)	
2/28/2019			1.4
4/3/2019		0.5	1.3
9/19/2019		0.42	1.3
2/5/2020			1.3
2/7/2020		0.25	
3/19/2020		0.057 (J)	1
9/22/2020		0.14	
9/23/2020			0.82
2/3/2021		0.15	
2/4/2021			0.91
3/8/2021	<0.1		
3/11/2021		0.16	
3/12/2021			0.98
4/8/2021	0.028 (J)		
8/26/2021	0.047 (J)	0.21	1
1/11/2022	0.028 (J)		
3/3/2022		0.19	1
3/4/2022	0.038 (J)		
6/7/2022	<0.1		
8/16/2022		0.21	
8/17/2022	<0.1		0.9
Mean	0.04157	0.265	1.308
Std. Dev.	0.0102	0.1246	0.2979
Upper Lim.	0.05	0.3302	1.464
Lower Lim.	0.028	0.1998	1.152

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.001					<0.001	<0.001
5/19/2016		<0.001	<0.001	<0.001			
7/19/2016						<0.001	<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001			
9/14/2016	<0.001	<0.001	<0.001	0.00055 (J)		<0.001	<0.001
11/10/2016				0.00047 (J)		<0.001	<0.001
11/11/2016	<0.001	<0.001	<0.001				
1/24/2017						<0.001	<0.001
1/27/2017		<0.001	<0.001	<0.001			
2/6/2017	<0.001						
2/8/2017					<0.001		
2/23/2017					<0.001		
3/14/2017						<0.001	
3/15/2017	<0.001	<0.001	<0.001	<0.001			<0.001
3/17/2017					<0.001		
4/11/2017					<0.001		
4/25/2017						<0.001	<0.001
4/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
5/17/2017					<0.001		
6/7/2017					<0.001		
7/11/2017					<0.001		
8/9/2017				<0.001		<0.001	<0.001
8/10/2017	<0.001	<0.001	<0.001				
3/29/2018		<0.001	<0.001	<0.001	<0.001		<0.001
3/30/2018	<0.001					<0.001	
2/27/2019	0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001	0.00014 (J)
4/3/2019		<0.001	<0.001	0.00047 (J)	<0.001		
4/4/2019	<0.001					<0.001	<0.001
9/18/2019				0.00045 (J)	<0.001	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001	<0.001				
2/5/2020	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001		
2/7/2020						<0.001	<0.001
3/18/2020	0.00021 (J)	<0.001	<0.001			<0.001	<0.001
3/19/2020				0.0006 (J)	0.00017 (J)		
9/23/2020	0.00013 (J)		<0.001			<0.001	<0.001
9/24/2020		0.00037 (J)		<0.001	0.00018 (J)		
2/3/2021		<0.001	<0.001				
2/4/2021	0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)	0.00013 (J)
3/11/2021	0.00032 (J)			0.00075 (J)	0.00031 (J)		<0.001
3/12/2021		0.00038 (J)	<0.001			<0.001	
8/25/2021		0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)		<0.001
8/26/2021	0.00026 (J)					<0.001	
3/3/2022	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001	<0.001
3/4/2022			0.00033 (J)				
8/16/2022		<0.001					
8/17/2022						<0.001	<0.001
8/18/2022			<0.001	0.0011			
8/19/2022	0.0003 (J)				0.00036 (J)		
Mean	0.000623	0.000878	0.0009665	0.000719	0.0007565	0.000965	0.0009135
Std. Dev.	0.0003909	0.0002568	0.0001498	0.000296	0.0003518	0.0001565	0.0002662
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00023	0.00058	0.00033	0.00045	0.00036	0.0003	0.00014

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-22	WGWC-24	WGWC-8	WGWC-9
5/18/2016	<0.001					
5/19/2016					<0.001	<0.001
7/20/2016	<0.001				<0.001	<0.001
9/14/2016	<0.001					<0.001
9/15/2016					<0.001	
11/10/2016	<0.001					
11/11/2016		<0.001				
11/14/2016					<0.001	
1/20/2017	<0.001					
2/6/2017		<0.001			<0.001	
2/9/2017						<0.001
3/14/2017	<0.001					
3/15/2017		<0.001			<0.001	<0.001
4/11/2017		<0.001				<0.001
4/25/2017	<0.001					
4/26/2017		<0.001			<0.001	<0.001
6/7/2017		<0.001				
7/11/2017		<0.001				
8/9/2017	<0.001					
8/10/2017		<0.001			<0.001	<0.001
3/29/2018		<0.001			<0.001	<0.001
3/30/2018	<0.001					
2/26/2019	0.00033 (J)					
2/27/2019					0.00017 (J)	
2/28/2019		<0.001				0.00014 (J)
4/2/2019		<0.001				
4/3/2019					<0.001	<0.001
4/4/2019	<0.001					
9/18/2019	<0.001	<0.001				
9/19/2019					<0.001	<0.001
2/5/2020						<0.001
2/7/2020	<0.001	<0.001			<0.001	
3/18/2020	0.0002 (J)					
3/19/2020					0.00016 (J)	<0.001
5/4/2020		<0.001				
9/22/2020					0.00013 (J)	
9/23/2020	<0.001	<0.001				<0.001
2/3/2021		<0.001			0.00013 (J)	
2/4/2021	<0.001					<0.001
3/11/2021	<0.001	<0.001			<0.001	
3/12/2021						<0.001
8/25/2021	<0.001					
8/26/2021		<0.001	0.00022 (J)	0.0012	0.00014 (J)	<0.001
1/11/2022			0.00023 (J)	0.00082 (J)		
3/3/2022		0.0003 (J)		0.00076 (J)	0.00052 (J)	<0.001
3/4/2022	<0.001		0.00036 (J)			
6/6/2022				0.00047 (J)		
6/7/2022			<0.001			
8/16/2022	<0.001				0.00041 (J)	
8/17/2022		<0.001				<0.001
8/18/2022				0.00032 (J)		
8/19/2022			0.00037 (J)			

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-22	WGWC-24	WGWC-8	WGWC-9
Mean	0.0009265	0.000965	0.000436	0.000714	0.000733	0.000957
Std. Dev.	0.0002272	0.0001565	0.000323	0.0003407	0.0003839	0.0001923
Upper Lim.	0.001	0.001	0.0004233	0.001285	0.001	0.001
Lower Lim.	0.00033	0.0003	0.0001871	0.0001431	0.00017	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.032					<0.005	<0.005
5/19/2016		<0.005	<0.005	<0.005			
7/19/2016						0.0036 (J)	0.0091
7/20/2016	0.021	<0.005	0.0057	<0.005			
9/14/2016	0.02	<0.005	0.0077	<0.005		<0.005	0.012
11/10/2016				0.0038 (J)		0.0064	0.013
11/11/2016	0.017	<0.005	0.007				
1/24/2017						0.0075	0.011
1/27/2017		<0.005	0.0074	<0.005			
2/6/2017	0.016						
2/8/2017					0.0039 (J)		
2/23/2017					<0.005		
3/14/2017						0.0057	
3/15/2017	0.014	<0.005	0.0077	<0.005			0.01
3/17/2017					<0.005		
4/11/2017					<0.005		
4/25/2017						0.0059	0.0081
4/26/2017	0.011	<0.005	0.0011	<0.005	<0.005		
5/17/2017					0.0033 (J)		
6/7/2017					<0.005		
7/11/2017					<0.005		
8/9/2017				<0.005		0.0068	0.013
8/10/2017	0.011	<0.005	0.0064				
3/29/2018		0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)		0.015
3/30/2018	0.016					0.0077	
6/14/2018	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052	0.009
10/3/2018						0.006	
10/4/2018	0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)		0.012
2/27/2019	0.0068	<0.005	0.0068	<0.005	<0.005	0.0055	0.0075
4/3/2019		<0.005	0.0075	<0.005	0.0015 (J)		
4/4/2019	0.0059					0.0054	0.0077
9/18/2019				<0.005	<0.005	0.0054	0.0056
9/19/2019	0.0075	<0.005	0.0067				
2/5/2020	0.0061	<0.005	0.0063	<0.005	<0.005		
2/7/2020						0.0068	0.0053
3/18/2020	0.0071	<0.005	0.0081			0.0086	0.0057
3/19/2020				<0.005	<0.005		
9/23/2020	0.0054		0.007			0.0071	0.0059
9/24/2020		<0.005		<0.005	<0.005		
2/3/2021		<0.005	0.0075				
2/4/2021	0.0049 (J)			<0.005	<0.005	0.0086	0.0051
3/11/2021	0.0051			0.0037 (J)	0.0035 (J)		0.005
3/12/2021		<0.005	0.0089			0.0096	
8/25/2021		<0.005	0.0061	<0.005	<0.005		0.0046 (J)
8/26/2021	0.0044 (J)					0.0059	
3/3/2022	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068	0.0041 (J)
3/4/2022			0.0061				
8/16/2022		0.00092 (J)					
8/17/2022						0.0073	0.0042 (J)
8/18/2022			0.0063	0.0024 (J)			
8/19/2022	0.0049 (J)				0.0021 (J)		
Mean	0.01076	0.004328	0.006732	0.004236	0.003959	0.006445	0.008086

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
Std. Dev.	0.007104	0.001466	0.001666	0.001227	0.001394	0.001409	0.003358
Upper Lim.	0.01344	0.005	0.007642	0.005	0.005	0.007202	0.009889
Lower Lim.	0.006792	0.0018	0.006127	0.0037	0.0025	0.005689	0.006284

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	<0.005						
7/20/2016	0.0042 (J)						
9/14/2016	0.0058						
11/10/2016	0.0066						
11/11/2016		0.045					
1/20/2017	0.0044 (J)						
2/6/2017		0.05					
3/14/2017	0.0048 (J)						
3/15/2017		0.052					
4/11/2017		0.048					
4/25/2017	0.0049 (J)						
4/26/2017		0.044					
6/7/2017		0.047					
7/11/2017		0.045					
8/9/2017	0.0067						
8/10/2017		0.056					
3/29/2018		0.072					
3/30/2018	0.0067						
6/14/2018	0.0046 (J)	0.048					
10/4/2018	0.005	0.062					
2/26/2019	0.0063						
2/28/2019		0.045					
4/2/2019		0.052					
4/4/2019	0.0042 (J)						
9/18/2019	0.0047 (J)	0.052					
2/7/2020	0.0045 (J)	0.044					
3/18/2020	0.0054						
5/4/2020		0.049					
9/23/2020	0.0056	0.056					
2/3/2021		0.06					
2/4/2021	0.0047 (J)						
3/8/2021			0.11				
3/9/2021				0.022	0.011	<0.005	0.0084
3/11/2021	0.0049 (J)	0.051					
4/7/2021				0.031		<0.005	0.0077
4/8/2021			0.11		0.0081		
8/25/2021	0.0048 (J)						
8/26/2021		0.057	0.11	0.032	0.011	<0.005	0.0076
1/11/2022				0.038	0.011	<0.005	0.0091
1/12/2022			0.15				
3/3/2022		0.057		0.044			0.0066
3/4/2022	0.0042 (J)		0.14		0.011	0.0015 (J)	
6/6/2022				0.051		0.002 (J)	0.0044 (J)
6/7/2022			0.12		0.0093		
8/16/2022	0.0053			0.059			
8/17/2022		0.056				0.0017 (J)	
8/18/2022			0.11				0.0036 (J)
8/19/2022					0.01		
Mean	0.00515	0.05218	0.1214	0.03957	0.0102	0.0036	0.006771
Std. Dev.	0.0008093	0.006926	0.01676	0.01271	0.001142	0.001752	0.002055
Upper Lim.	0.005584	0.0559	0.15	0.05467	0.011	0.005	0.009212
Lower Lim.	0.004716	0.04846	0.11	0.02447	0.0081	0.0015	0.004331

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.0215	0.0335
7/20/2016		0.026	0.024
9/14/2016			0.039
9/15/2016		0.057	
11/14/2016		0.017	
2/6/2017		0.012	
2/9/2017			0.04
3/15/2017		0.014	0.035
4/11/2017			0.034
4/26/2017		0.0091	0.029
8/10/2017		0.013	0.038
3/29/2018		0.018	0.048
6/14/2018		0.015	0.034
10/4/2018		0.013	0.039
2/27/2019		0.014	
2/28/2019			0.037
4/3/2019		0.015	0.035
9/19/2019		0.014	0.036
2/5/2020			0.034
2/7/2020		0.014	
3/19/2020		0.015	0.039
9/22/2020		0.013	
9/23/2020			0.033
2/3/2021		0.014	
2/4/2021			0.035
3/8/2021	0.0046 (J)		
3/11/2021		0.013	
3/12/2021			0.034
4/8/2021	0.0044 (J)		
8/26/2021	0.0044 (J)	0.013	0.03
1/11/2022	0.0043 (J)		
3/3/2022		0.014	0.03
3/4/2022	0.0035 (J)		
6/7/2022	0.004 (J)		
8/16/2022		0.014	
8/17/2022	0.0036 (J)		0.028
Mean	0.004114	0.01675	0.03475
Std. Dev.	0.0004259	0.00962	0.00498
Upper Lim.	0.00462	0.017	0.03742
Lower Lim.	0.003608	0.013	0.03208

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.0002					<0.0002	<0.0002
5/19/2016		<0.0002	<0.0002	<0.0002			
7/19/2016						9.3E-05 (J)	<0.0002
7/20/2016	8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)			
9/14/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/10/2016				8.3E-05 (J)		8.5E-05 (J)	0.00012 (J)
11/11/2016	8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)				
1/24/2017						<0.0002	7E-05 (J)
1/27/2017		<0.0002	<0.0002	<0.0002			
2/6/2017	8.3E-05 (J)						
2/8/2017					<0.0002		
2/23/2017					<0.0002		
3/14/2017						7.1E-05 (J)	
3/15/2017	0.00013 (J)	<0.0002	0.00018 (J)	<0.0002			<0.0002
3/17/2017					0.00013 (J)		
4/11/2017					<0.0002		
4/25/2017						<0.0002	0.00019 (J)
4/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
5/17/2017					<0.0002		
6/7/2017					<0.0002		
7/11/2017					<0.0002		
8/9/2017				<0.0002		<0.0002	<0.0002
8/10/2017	<0.0002	<0.0002	<0.0002				
3/29/2018		<0.0002	0.00011 (J)	<0.0002	<0.0002		<0.0002
3/30/2018	<0.0002					8.6E-05 (J)	
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018						<0.0002	
10/4/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/7/2020						<0.0002	<0.0002
3/18/2020	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002
3/19/2020				<0.0002	<0.0002		
9/23/2020	<0.0002		<0.0002			<0.0002	<0.0002
9/24/2020		<0.0002		<0.0002	<0.0002		
2/3/2021		<0.0002	<0.0002				
2/4/2021	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
3/3/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/4/2022			<0.0002				
8/16/2022		<0.0002					
8/17/2022						<0.0002	<0.0002
8/18/2022			<0.0002	<0.0002			
8/19/2022	<0.0002				<0.0002		
Mean	0.0001767	0.0001884	0.0001822	0.0001869	0.0001961	0.0001742	0.0001878
Std. Dev.	4.598E-05	3.397E-05	3.874E-05	3.816E-05	1.65E-05	4.988E-05	3.49E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.00011	0.00018	8.3E-05	0.00013	9.3E-05	0.00019

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	<0.0002						
7/20/2016	7.4E-05 (J)						
9/14/2016	<0.0002						
11/10/2016	<0.0002						
11/11/2016		7.6E-05 (J)					
1/20/2017	<0.0002						
2/6/2017		0.00012 (J)					
3/14/2017	<0.0002						
3/15/2017		<0.0002					
4/11/2017		<0.0002					
4/25/2017	<0.0002						
4/26/2017		<0.0002					
6/7/2017		<0.0002					
7/11/2017		<0.0002					
8/9/2017	<0.0002						
8/10/2017		<0.0002					
3/29/2018		<0.0002					
3/30/2018	<0.0002						
6/14/2018	<0.0002	<0.0002					
10/4/2018	<0.0002	<0.0002					
2/26/2019	<0.0002						
2/28/2019		<0.0002					
2/7/2020	<0.0002	<0.0002					
3/18/2020	<0.0002						
5/4/2020		<0.0002					
9/23/2020	<0.0002	<0.0002					
2/3/2021		<0.0002					
2/4/2021	<0.0002						
8/26/2021			0.00033	0.0002	0.00018 (J)	0.00022	0.00026
1/11/2022				<0.0002	<0.0002	<0.0002	<0.0002
1/12/2022			<0.0002				
3/3/2022		<0.0002		<0.0002			<0.0002
3/4/2022	<0.0002		<0.0002		<0.0002	<0.0002	
6/6/2022				<0.0002		<0.0002	<0.0002
6/7/2022			<0.0002		<0.0002		
8/16/2022	<0.0002			<0.0002			
8/17/2022		<0.0002				<0.0002	
8/18/2022			<0.0002				<0.0002
8/19/2022					<0.0002		
Mean	0.000193	0.0001887	0.000226	0.0002	0.000196	0.000204	0.000212
Std. Dev.	2.97E-05	3.384E-05	5.814E-05	2.3E-12	8.944E-06	8.944E-06	2.683E-05
Upper Lim.	0.0002	0.0002	0.00033	0.0002	0.0002	0.00022	0.00026
Lower Lim.	7.4E-05	0.00012	0.0002	0.0002	0.00018	0.0002	0.0002

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		<0.0002	<0.0002
7/20/2016		<0.0002	<0.0002
9/14/2016			<0.0002
9/15/2016		0.00011 (J)	
11/14/2016		<0.0002	
2/6/2017		7.8E-05 (J)	
2/9/2017			<0.0002
3/15/2017		0.00013 (J)	0.00013 (J)
4/11/2017			<0.0002
4/26/2017		<0.0002	<0.0002
8/10/2017		<0.0002	<0.0002
3/29/2018		<0.0002	<0.0002
6/14/2018		<0.0002	<0.0002
10/4/2018		<0.0002	<0.0002
2/27/2019		<0.0002	
2/28/2019			<0.0002
2/5/2020			<0.0002
2/7/2020		<0.0002	
3/19/2020		<0.0002	<0.0002
9/22/2020		<0.0002	
9/23/2020			<0.0002
2/3/2021		<0.0002	
2/4/2021			<0.0002
8/26/2021	0.0019		
1/11/2022	<0.0002		
3/3/2022		<0.0002	<0.0002
3/4/2022	<0.0002		
6/7/2022	<0.0002		
8/16/2022		<0.0002	
8/17/2022	<0.0002		<0.0002
Mean	0.00054	0.0001843	0.0001961
Std. Dev.	0.0007603	3.715E-05	1.65E-05
Upper Lim.	0.0019	0.0002	0.0002
Lower Lim.	0.0002	0.00013	0.00013

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-17
5/18/2016	<0.015					0.0153	0.00526 (J)
5/19/2016		<0.015	<0.015	0.00491 (J)			
7/19/2016						0.0093 (J)	
7/20/2016	<0.015	<0.015	0.00095 (J)	0.0025 (J)			0.0066 (J)
9/14/2016	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)	0.0081 (J)
11/10/2016				0.0016 (J)		0.0065 (J)	0.0076 (J)
11/11/2016	<0.015	<0.015	<0.015				
1/20/2017							0.0094 (J)
1/24/2017						0.0049 (J)	
1/27/2017		<0.015	<0.015	0.0023 (J)			
2/6/2017	<0.015						
2/8/2017					<0.015		
2/23/2017					<0.015		
3/14/2017						0.0034 (J)	0.0044 (J)
3/15/2017	<0.015	<0.015	<0.015	0.0022 (J)			
3/17/2017					<0.015		
4/11/2017					<0.015		
4/25/2017						0.004 (J)	0.0074 (J)
4/26/2017	<0.015	<0.015	<0.015	0.0019 (J)	<0.015		
5/17/2017					<0.015		
6/7/2017					0.001 (J)		
7/11/2017					<0.015		
8/9/2017				0.0028 (J)		0.0042 (J)	0.0066 (J)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)				
3/29/2018		<0.015	<0.015	0.0028 (J)	<0.015		
3/30/2018	<0.015					0.0049 (J)	0.0024 (J)
6/14/2018	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)	0.0026 (J)
10/3/2018						0.0041 (J)	
10/4/2018	<0.015	<0.015	<0.015	<0.015	<0.015		0.00085 (J)
2/26/2019							0.0032 (J)
2/27/2019	<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061	
4/3/2019		<0.015	<0.015	<0.015	<0.015		
4/4/2019	<0.015					0.0039 (J)	0.002 (J)
9/18/2019				0.0021 (J)	<0.015	0.0052	0.0026 (J)
9/19/2019	<0.015	<0.015	0.00073 (J)				
2/5/2020	<0.015	<0.015	<0.015	0.0012 (J)	<0.015		
2/7/2020						0.0024 (J)	0.0025 (J)
3/18/2020	<0.015	<0.015	<0.015			0.002 (J)	0.0024 (J)
3/19/2020				0.0018 (J)	<0.015		
9/23/2020	<0.015		<0.015			0.0031 (J)	0.0027 (J)
9/24/2020		0.0017 (J)		<0.015	<0.015		
2/3/2021		<0.015	<0.015				
2/4/2021	<0.015			0.0012 (J)	<0.015	0.0022 (J)	0.0025 (J)
3/11/2021	<0.015			0.0013 (J)	<0.015		0.0022 (J)
3/12/2021		<0.015	0.00062 (J)			0.0019 (J)	
8/25/2021		<0.015	<0.015	0.00092 (J)	<0.015		0.0022 (J)
8/26/2021	<0.015					0.0029 (J)	
3/3/2022	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)	
3/4/2022			<0.015				0.0021 (J)
8/16/2022		<0.015					0.0024 (J)
8/17/2022						0.0025 (J)	
8/18/2022			<0.015	0.00087 (J)			

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-17
8/19/2022	<0.015				<0.015		
Mean	0.01372	0.01376	0.01129	0.003765	0.01436	0.00495	0.004
Std. Dev.	0.004143	0.004003	0.006244	0.004654	0.002985	0.003362	0.002471
Upper Lim.	0.015	0.015	0.015	0.0028	0.015	0.006165	0.004867
Lower Lim.	0.00093	0.0017	0.0046	0.0013	0.001	0.003158	0.002514

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
5/19/2016					0.00762 (J)
7/20/2016					0.0084 (J)
9/14/2016					0.0071 (J)
11/11/2016	<0.015				
2/6/2017	0.001 (J)				
2/9/2017					0.018
3/15/2017	<0.015				0.0057 (J)
4/11/2017	<0.015				0.0047 (J)
4/26/2017	<0.015				0.004 (J)
6/7/2017	0.0015 (J)				
7/11/2017	<0.015				
8/10/2017	0.0016 (J)				0.0046 (J)
3/29/2018	0.0012 (J)				0.0048 (J)
6/14/2018	0.0014 (J)				0.0046 (J)
10/4/2018	<0.015				0.003 (J)
2/28/2019	0.0013 (J)				0.0053
4/2/2019	<0.015				
4/3/2019					0.0026 (J)
9/18/2019	0.0011 (J)				
9/19/2019					0.0048 (J)
2/5/2020					0.0044 (J)
2/7/2020	0.0014 (J)				
3/19/2020					0.0042 (J)
5/4/2020	0.0013 (J)				
9/23/2020	0.0013 (J)				0.0027 (J)
2/3/2021	0.0013 (J)				
2/4/2021					0.003 (J)
3/11/2021	0.0012 (J)				
3/12/2021					0.003 (J)
8/26/2021	0.0011 (J)	0.00079 (J)	0.044	<0.015	0.0028 (J)
1/11/2022			0.037	<0.015	
1/12/2022		0.00062 (J)			
3/3/2022	0.0013 (J)		0.036		0.0027 (J)
3/4/2022		<0.015		0.00084 (J)	
6/6/2022			0.032		
6/7/2022		<0.015		<0.015	
8/16/2022			0.042		
8/17/2022	0.001 (J)				0.0027 (J)
8/18/2022		<0.015			
8/19/2022				<0.015	
Mean	0.005636	0.009282	0.0382	0.01217	0.005033
Std. Dev.	0.006549	0.00783	0.004817	0.006333	0.003333
Upper Lim.	0.015	0.015	0.04627	0.015	0.005705
Lower Lim.	0.0012	0.00062	0.03013	0.00084	0.003432

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16	WGWC-19
5/18/2016	<0.005				<0.005	0.00735	
5/19/2016		<0.005	<0.005				
7/19/2016					<0.005	0.0075	
7/20/2016	<0.005	<0.005	<0.005				
9/14/2016	<0.005	<0.005	<0.005		<0.005	0.0091	
11/10/2016					<0.005	0.0056	
11/11/2016	<0.005	<0.005	<0.005				<0.005
1/24/2017					<0.005	0.012	
1/27/2017		<0.005	<0.005				
2/6/2017	<0.005						<0.005
2/8/2017				<0.005			
2/23/2017				<0.005			
3/14/2017					<0.005		
3/15/2017	<0.005	<0.005	<0.005			0.012	<0.005
3/17/2017				<0.005			
4/11/2017				<0.005			<0.005
4/25/2017					<0.005	0.013	
4/26/2017	<0.005	<0.005	<0.005	<0.005			<0.005
5/17/2017				<0.005			
6/7/2017				<0.005			<0.005
7/11/2017				<0.005			<0.005
8/9/2017					<0.005	0.016	
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021				0.00036 (J)
3/29/2018		<0.005	<0.005	0.0003 (J)		0.016	<0.005
3/30/2018	<0.005				<0.005		
6/14/2018	<0.005	<0.005	<0.005	<0.005	0.0005 (J)	0.012	<0.005
10/3/2018					<0.005		
10/4/2018	<0.005	<0.005	<0.005	<0.005		0.013	<0.005
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081	
2/28/2019							<0.005
4/2/2019							<0.005
4/3/2019		<0.005	<0.005	<0.005			
4/4/2019	<0.005				<0.005	0.0091	
9/18/2019				<0.005	<0.005	0.0044 (J)	<0.005
9/19/2019	<0.005	<0.005	<0.005				
2/5/2020	<0.005	<0.005	<0.005	<0.005			
2/7/2020					<0.005	0.0036 (J)	<0.005
3/18/2020	<0.005	<0.005	<0.005		<0.005	0.0046 (J)	
3/19/2020				<0.005			
5/4/2020							<0.005
9/23/2020	<0.005		<0.005		<0.005	0.0028 (J)	<0.005
9/24/2020		<0.005		<0.005			
2/3/2021		<0.005	<0.005				<0.005
2/4/2021	<0.005			<0.005	<0.005	0.0023 (J)	
3/11/2021	<0.005			<0.005		0.0023 (J)	<0.005
3/12/2021		<0.005	<0.005		<0.005		
8/25/2021		<0.005	<0.005	<0.005		0.0019 (J)	
8/26/2021	<0.005				<0.005		<0.005
3/3/2022	<0.005	<0.005		<0.005	<0.005	0.0018 (J)	<0.005
3/4/2022			<0.005				
8/16/2022		<0.005					
8/17/2022					<0.005	<0.005	<0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16	WGWC-19
8/18/2022			<0.005				
8/19/2022	<0.005			<0.005			
Mean	0.004787	0.004795	0.004868	0.004786	0.004795	0.007702	0.004789
Std. Dev.	0.0009999	0.0009615	0.0006183	0.001002	0.0009594	0.004647	0.0009893
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.0102	0.005
Lower Lim.	0.00031	0.00049	0.0021	0.0003	0.0005	0.005208	0.00036

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-20	WGWC-22	WGWC-23	WGWC-24	WGWC-8	WGWC-9
5/19/2016					0.00518	0.00228
7/20/2016					0.0038	0.0016
9/14/2016						0.0024
9/15/2016					0.0034	
11/14/2016					0.0033	
2/6/2017					0.0033	
2/9/2017						0.0023
3/15/2017					0.003	0.0031
4/11/2017						0.0023
4/26/2017					0.0032	0.0019
8/10/2017					0.0031	0.0021
3/29/2018					0.0034	0.0021
6/14/2018					0.0031	0.0025
10/4/2018					0.0033	0.002
2/27/2019					0.0035	
2/28/2019						0.0027
4/3/2019					0.0031	0.0019
9/19/2019					0.0021 (J)	0.0026 (J)
2/5/2020						0.0033 (J)
2/7/2020					0.0048 (J)	
3/19/2020					0.0037 (J)	0.0033 (J)
9/22/2020					0.0039 (J)	
9/23/2020						0.0029 (J)
2/3/2021					0.0036 (J)	
2/4/2021						0.003 (J)
3/11/2021					0.0038 (J)	
3/12/2021						0.0034 (J)
8/26/2021	0.0016 (J)	0.0049 (J)	0.002 (J)	<0.005	0.0037 (J)	0.0028 (J)
1/11/2022		0.0065	0.0024 (J)	<0.005		
1/12/2022	<0.005					
3/3/2022				0.00077 (J)	0.0038 (J)	0.0021 (J)
3/4/2022	0.0014 (J)	0.0072	0.002 (J)			
6/6/2022			0.0018 (J)	<0.005		
6/7/2022	0.0014 (J)	0.0047 (J)				
8/16/2022					0.0075	
8/17/2022			0.0013 (J)			0.0022 (J)
8/18/2022	0.0027 (J)			<0.005		
8/19/2022		0.0035 (J)				
Mean	0.00242	0.00536	0.0019	0.004154	0.003708	0.00249
Std. Dev.	0.00154	0.001483	0.0004	0.001892	0.001047	0.0005111
Upper Lim.	0.002682	0.007844	0.00257	0.005	0.0038	0.002764
Lower Lim.	0.001031	0.002876	0.00123	0.00077	0.0032	0.002216

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22	WGWC-24
5/18/2016	<0.001			<0.001			
5/19/2016		<0.001					
7/19/2016				8.5E-05 (J)			
7/20/2016	<0.001	<0.001					
9/14/2016	<0.001	<0.001		0.00017 (J)			
11/10/2016				0.00017 (J)			
11/11/2016	<0.001	<0.001			<0.001		
1/24/2017				0.00023 (J)			
1/27/2017		<0.001					
2/6/2017	<0.001				<0.001		
2/8/2017			0.00011 (J)				
2/23/2017			0.00012 (J)				
3/15/2017	<0.001	<0.001		0.00021 (J)	<0.001		
3/17/2017			<0.001				
4/11/2017			<0.001		<0.001		
4/25/2017				0.00024 (J)			
4/26/2017	<0.001	<0.001	<0.001		<0.001		
5/17/2017			<0.001				
6/7/2017			<0.001		<0.001		
7/11/2017			<0.001		<0.001		
8/9/2017				0.0002 (J)			
8/10/2017	<0.001	<0.001			<0.001		
3/29/2018		<0.001	0.0002 (J)	0.00019 (J)	<0.001		
3/30/2018	8.5E-05 (J)						
6/14/2018	<0.001	<0.001	0.00014 (J)	0.00017 (J)	<0.001		
10/4/2018	<0.001	<0.001	0.00013 (J)	0.00015 (J)	<0.001		
2/27/2019	<0.001	<0.001	0.00016 (J)	0.00015 (J)			
2/28/2019					<0.001		
4/2/2019					<0.001		
4/3/2019		<0.001	0.00012 (J)				
4/4/2019	<0.001			9.5E-05 (J)			
9/18/2019			<0.001	<0.001	<0.001		
9/19/2019	<0.001	<0.001					
2/5/2020	<0.001	<0.001	0.00022 (J)				
2/7/2020				<0.001	<0.001		
3/18/2020	<0.001	<0.001		<0.001			
3/19/2020			0.00017 (J)				
5/4/2020					<0.001		
9/23/2020	<0.001			<0.001	<0.001		
9/24/2020		<0.001	<0.001				
2/3/2021		0.00016 (J)			0.00018 (J)		
2/4/2021	<0.001		0.00021 (J)	<0.001			
3/11/2021	<0.001		0.00019 (J)	<0.001	<0.001		
3/12/2021		<0.001					
8/25/2021		<0.001	<0.001	<0.001			
8/26/2021	<0.001				<0.001	<0.001	0.00072 (J)
1/11/2022						<0.001	0.00062 (J)
3/3/2022	<0.001	<0.001	<0.001	<0.001	<0.001		0.0006 (J)
3/4/2022						0.00047 (J)	
6/6/2022							0.00052 (J)
6/7/2022						<0.001	
8/16/2022		<0.001					

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/10/2022 11:41 AM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22	WGWC-24
8/17/2022				<0.001	<0.001		
8/18/2022							0.0003 (J)
8/19/2022	<0.001		<0.001			<0.001	
Mean	0.0009584	0.0009618	0.0005805	0.0005482	0.0009627	0.000894	0.000552
Std. Dev.	0.0001951	0.0001791	0.0004303	0.0004236	0.0001748	0.000237	0.0001579
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.0008165
Lower Lim.	8.5E-05	0.00016	0.00016	0.00017	0.00018	0.00047	0.0002875

FIGURE I.

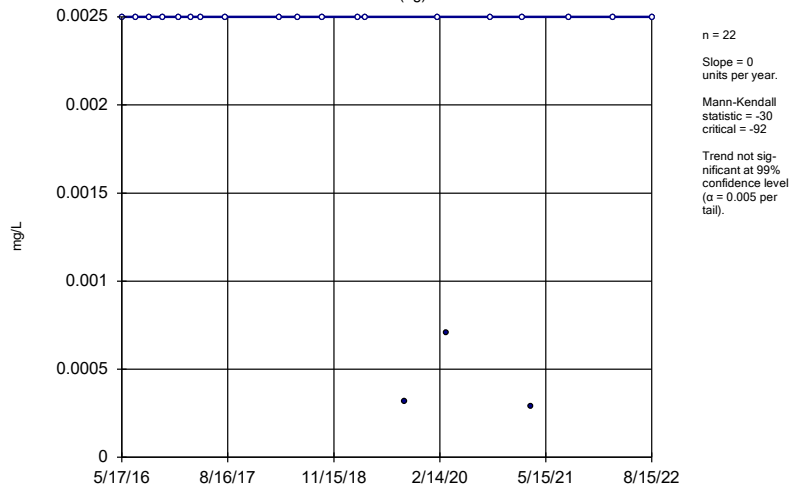
Trend Tests - Confidence Interval Exceedances - All Results (No Significant)

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 12/19/2022, 11:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	WGWA-1 (bg)	0	-30	-92	No	22	86.36	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-28	-92	No	22	86.36	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-25	-92	No	22	90.91	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-4	-87	No	21	95.24	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-5	-92	No	22	95.45	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-7	-92	No	22	95.45	n/a	n/a	0.01	NP
Beryllium (mg/L)	WGWC-20	-0.004104	-3	-12	No	5	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.00004412	-37	-87	No	21	38.1	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-18 (bg)	0	6	87	No	21	85.71	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-2 (bg)	0.00009435	17	87	No	21	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-3 (bg)	0	10	87	No	21	85.71	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-4 (bg)	0.0001411	43	87	No	21	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-5 (bg)	0	-2	-74	No	19	94.74	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-6 (bg)	0.0002048	52	81	No	20	5	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-7 (bg)	0	6	87	No	21	95.24	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-19	0.001537	69	92	No	22	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-20	0	3	18	No	7	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

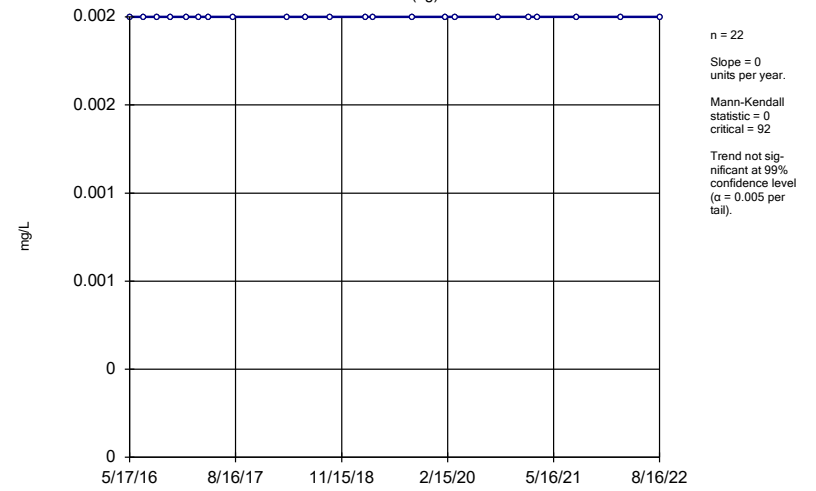
WGWA-1 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

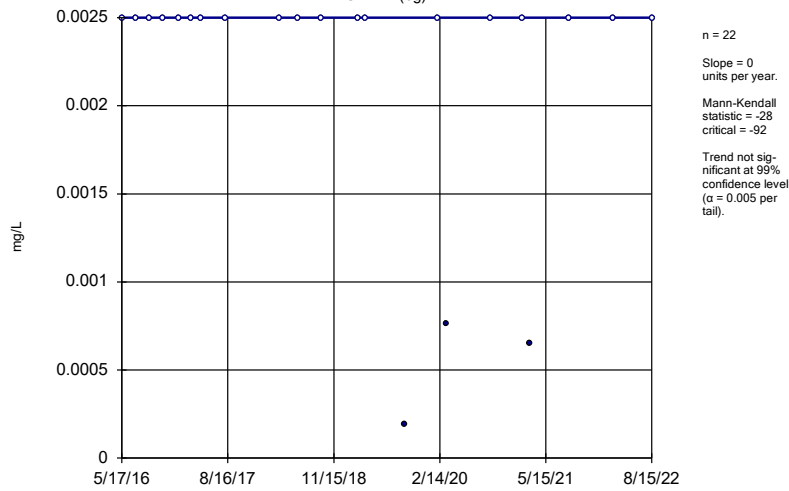
WGWA-18 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

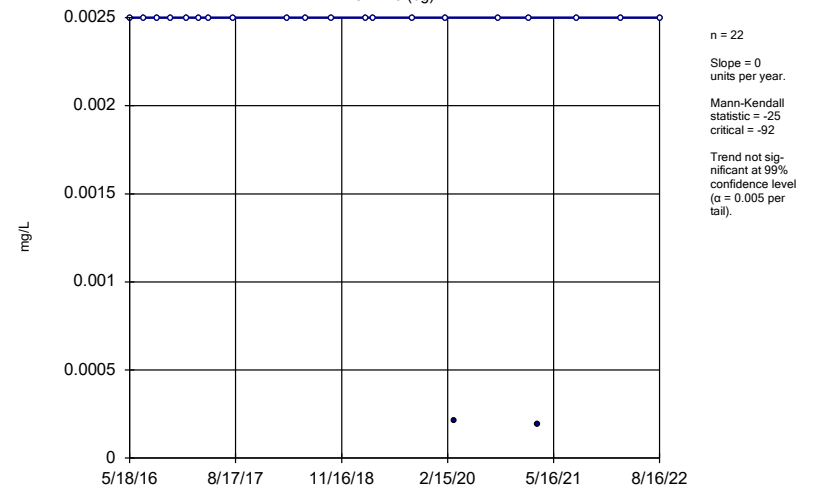
WGWA-2 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

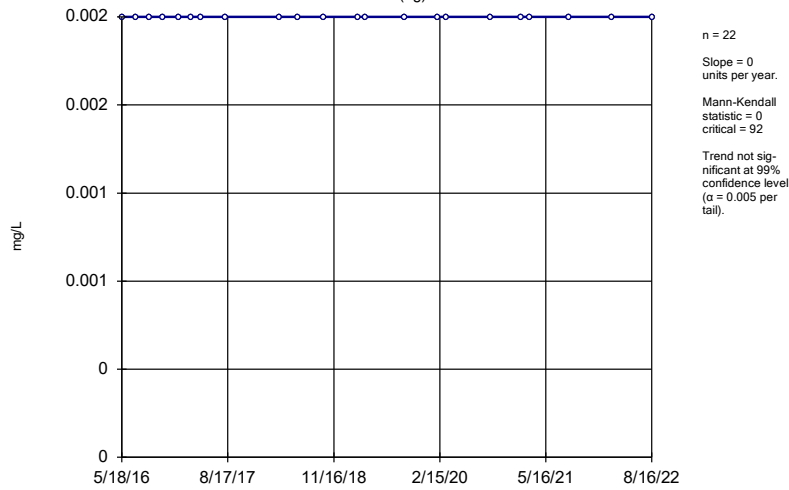
WGWA-3 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

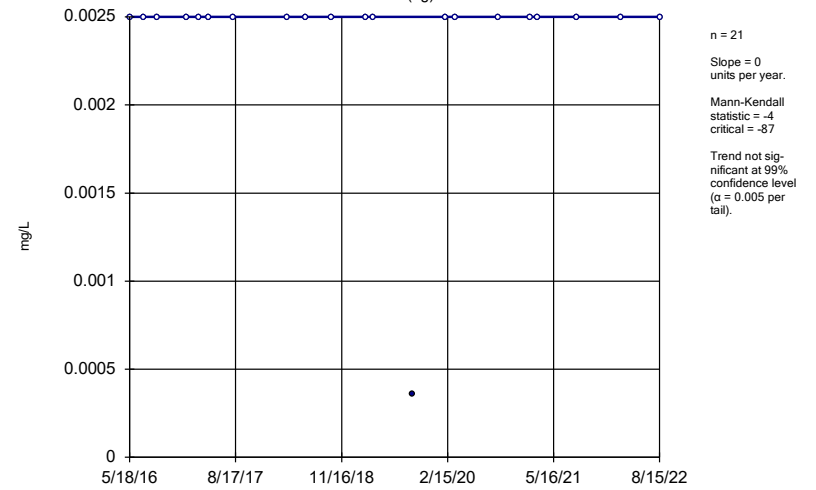
WGWA-4 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

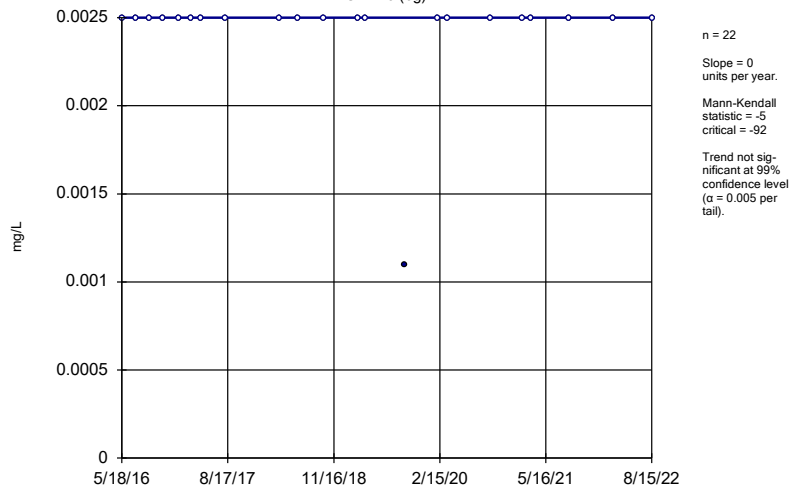
WGWA-5 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

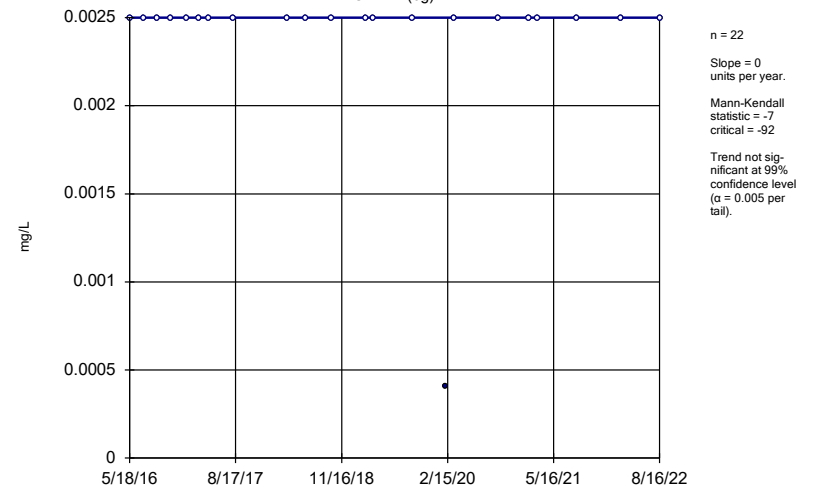
WGWA-6 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

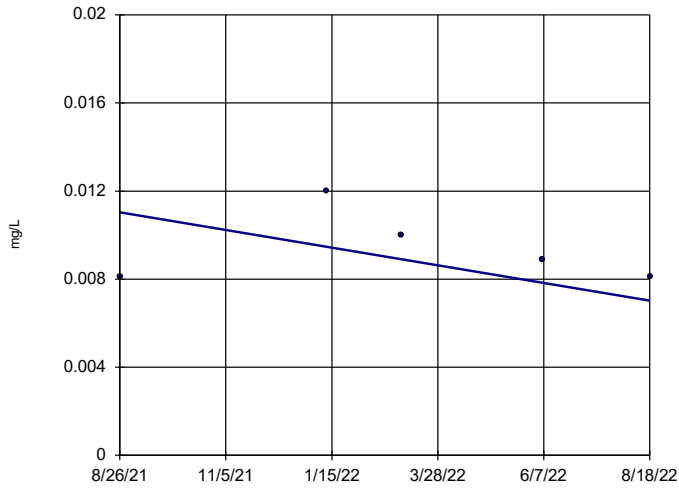
WGWA-7 (bg)



Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-20



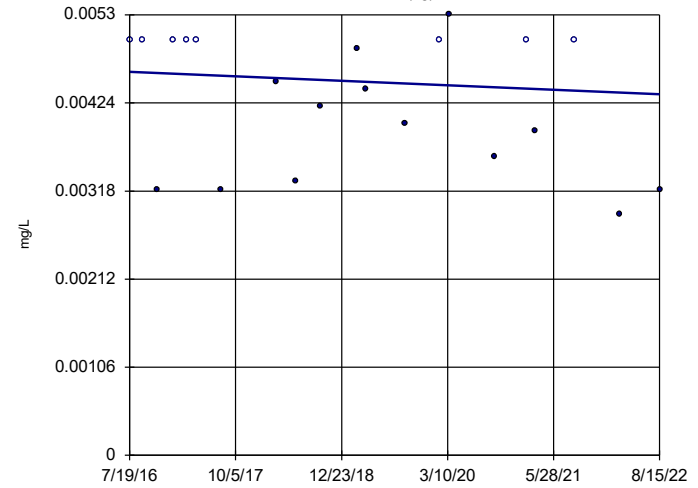
n = 5
 Slope = -0.004104 units per year.
 Mann-Kendall statistic = -3
 critical = -12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)

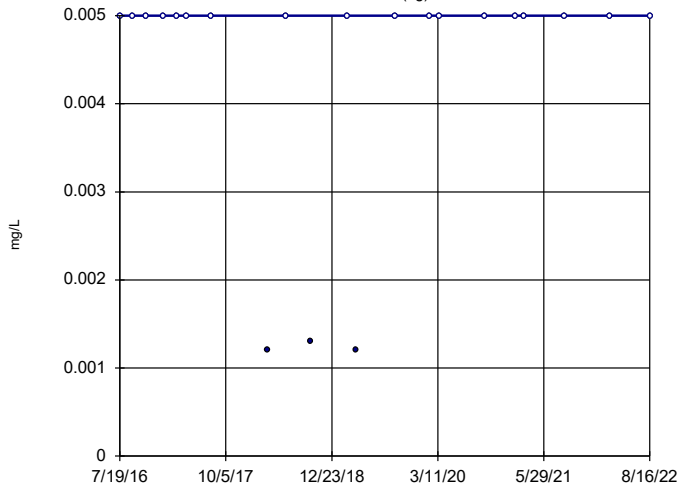


n = 21
 Slope = -0.00004412 units per year.
 Mann-Kendall statistic = -37
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

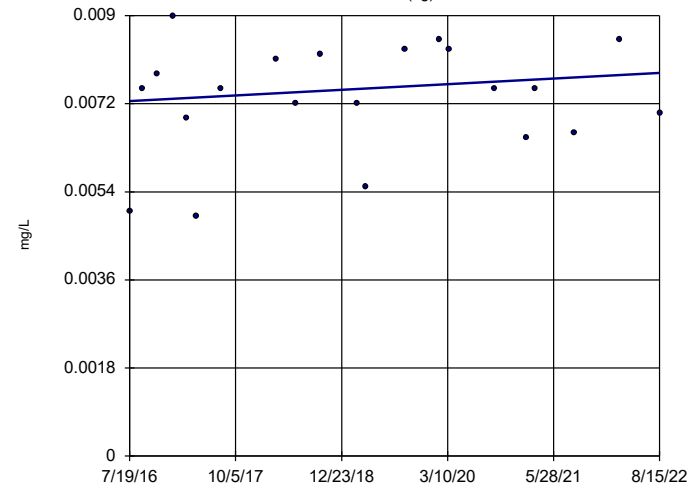


n = 21
 Slope = 0 units per year.
 Mann-Kendall statistic = 6
 critical = 87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

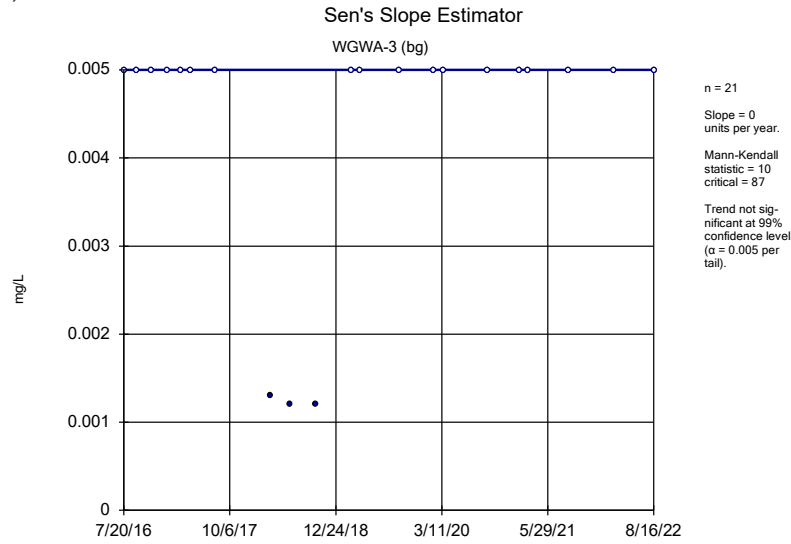
Sen's Slope Estimator

WGWA-2 (bg)

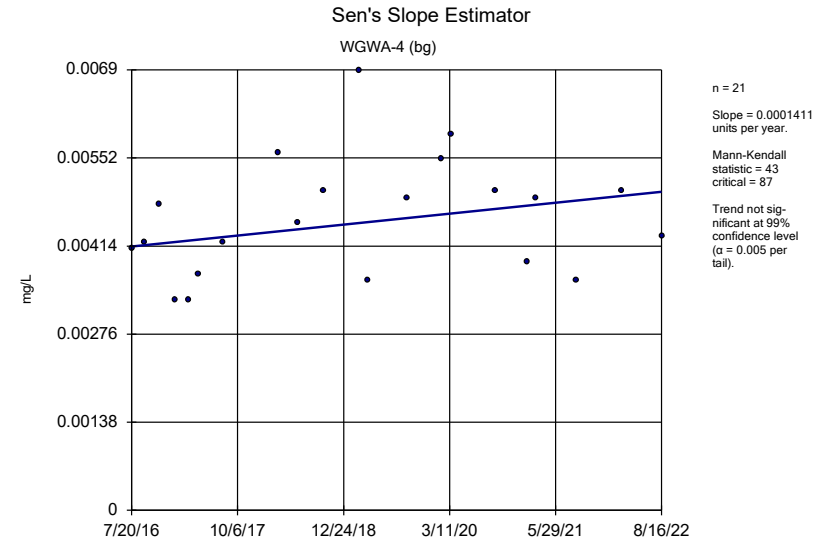


n = 21
 Slope = 0.00009435 units per year.
 Mann-Kendall statistic = 17
 critical = 87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

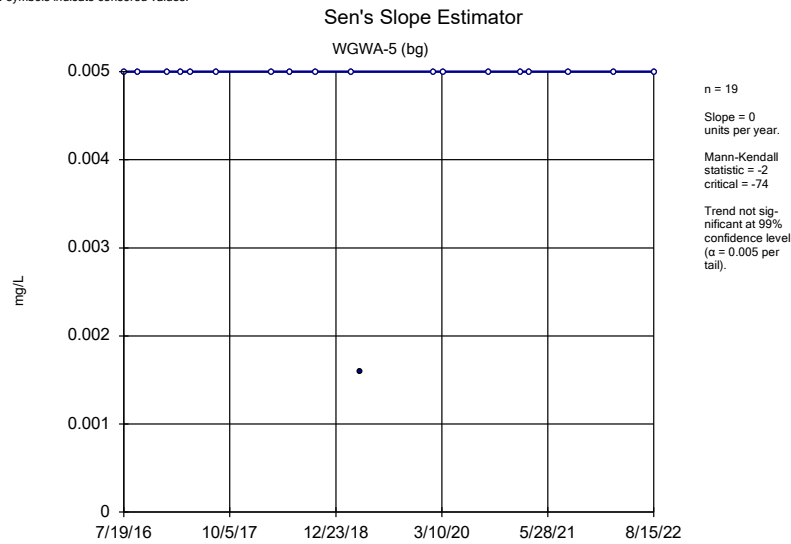
Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



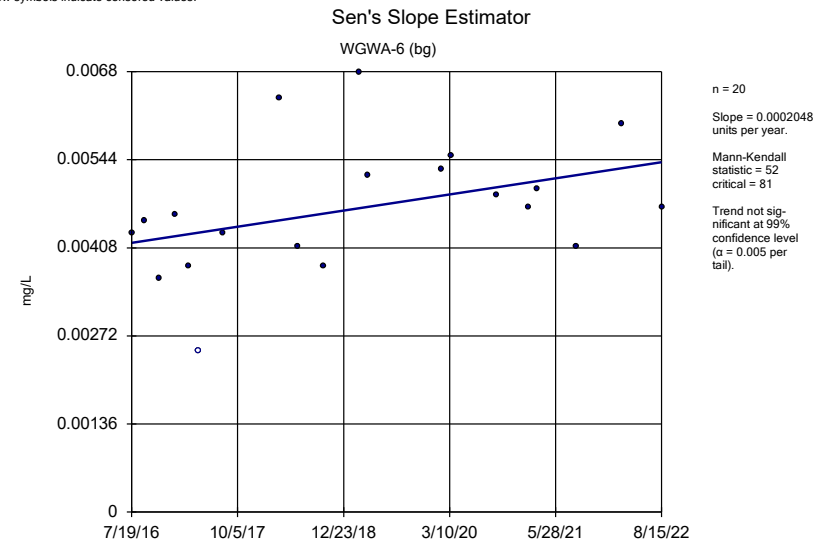
Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond



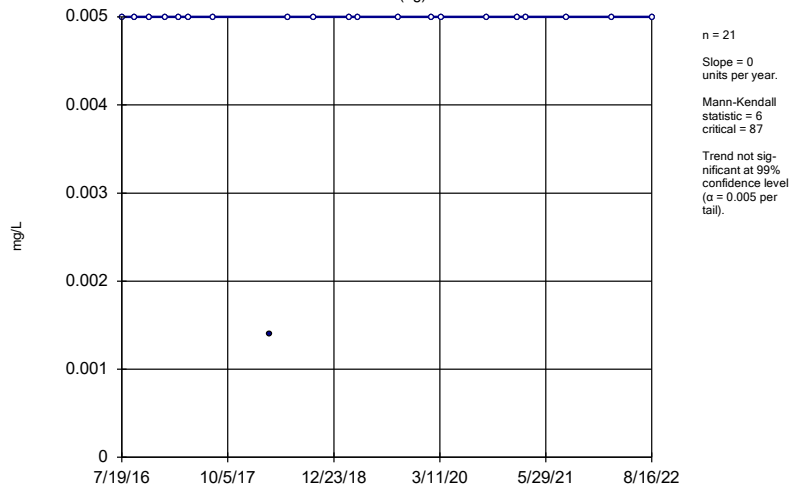
Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

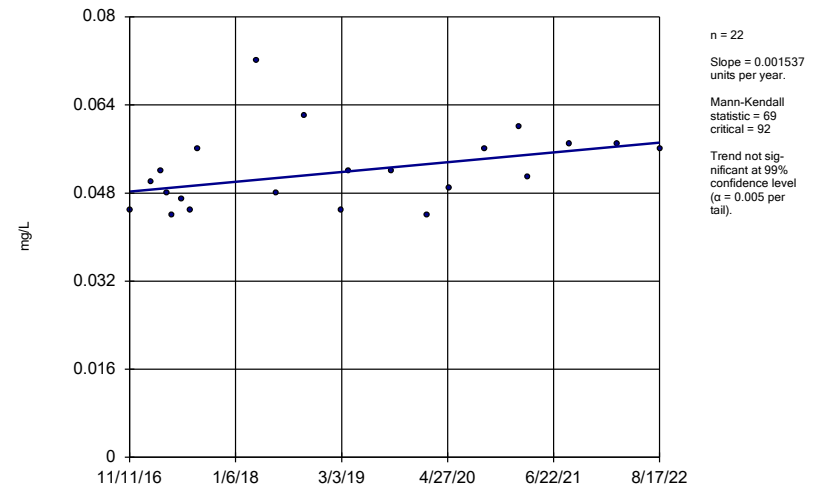
WGWA-7 (bg)



Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

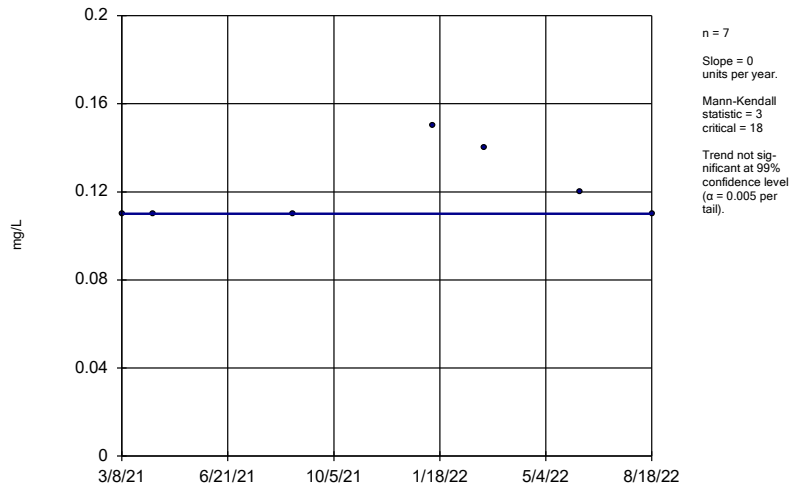
WGWC-19



Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-20



Constituent: Lithium Analysis Run 12/19/2022 11:11 AM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

APPENDIX E

Assessment of Corrective Measures (ACM) Extension Request

**DEADLINE EXTENSION DEMONSTRATION
ASSESSMENT OF CORRECTIVE MEASURES
40 CFR §257.96(a)
PLANT WANSLEY ASH POND 1 (AP-1)
GEORGIA POWER COMPANY**

Pursuant to 40 CFR §257.96(a), Georgia Power Company requires that the deadline to complete the Assessment of Corrective Measures (ACM) be extended by 60 days, until March 26, 2023, due to site-specific conditions or circumstances.

The 60-day extension is required because activities are on-going at Plant Wansley AP-1 to characterize the nature and extent of target constituents and relevant site conditions that may affect evaluation of possible corrective measures. Additional time is required to assess installation of additional assessment monitoring wells and to evaluate groundwater monitoring data from the assessment well network relative to data from the current detection monitoring well network. These data will be incorporated into the existing conceptual site model (CSM). An updated CSM is necessary for a complete evaluation of appropriate corrective measures that can be undertaken to meet the requirements of 40 CFR §257.96(c). An additional 60 days will enable the preparation of the ACM based on a more thorough evaluation of technical data to develop the most appropriate solutions for the protection of groundwater quality.

CERTIFICATION

I, Lauren E. Fitzgerald, being a Registered Professional Engineer licensed in the state where the CCR unit is located, do hereby certify to the best of my knowledge, information, and belief, that the information provided above is accurate. I hereby certify that I am a qualified groundwater scientist, in accordance with 40 CFR §258.50(g).



A handwritten signature in blue ink that reads "Lauren Fitzgerald".

Lauren E. Fitzgerald, PhD, PE
Project Engineer
Geosyntec Consultants

January 25, 2023
Date

APPENDIX F

Potable Well Survey Report

Plant Wansley

1371 Liberty Church Rd
Franklin, GA 30217

Inquiry Number: 07207900.1r
December 19, 2022

The EDR GeoCheck® Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
<u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-10
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT WANSLEY
1371 LIBERTY CHURCH RD
FRANKLIN, GA 30217

TARGET PROPERTY COORDINATES

Latitude (North):	33.421477 - 33° 25' 17.32"
Longitude (West):	85.043422 - 85° 2' 36.32"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	681919.4
UTM Y (Meters):	3699532.2
Elevation:	771 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33085-D1 LOWELL, GA
Version Date:	1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

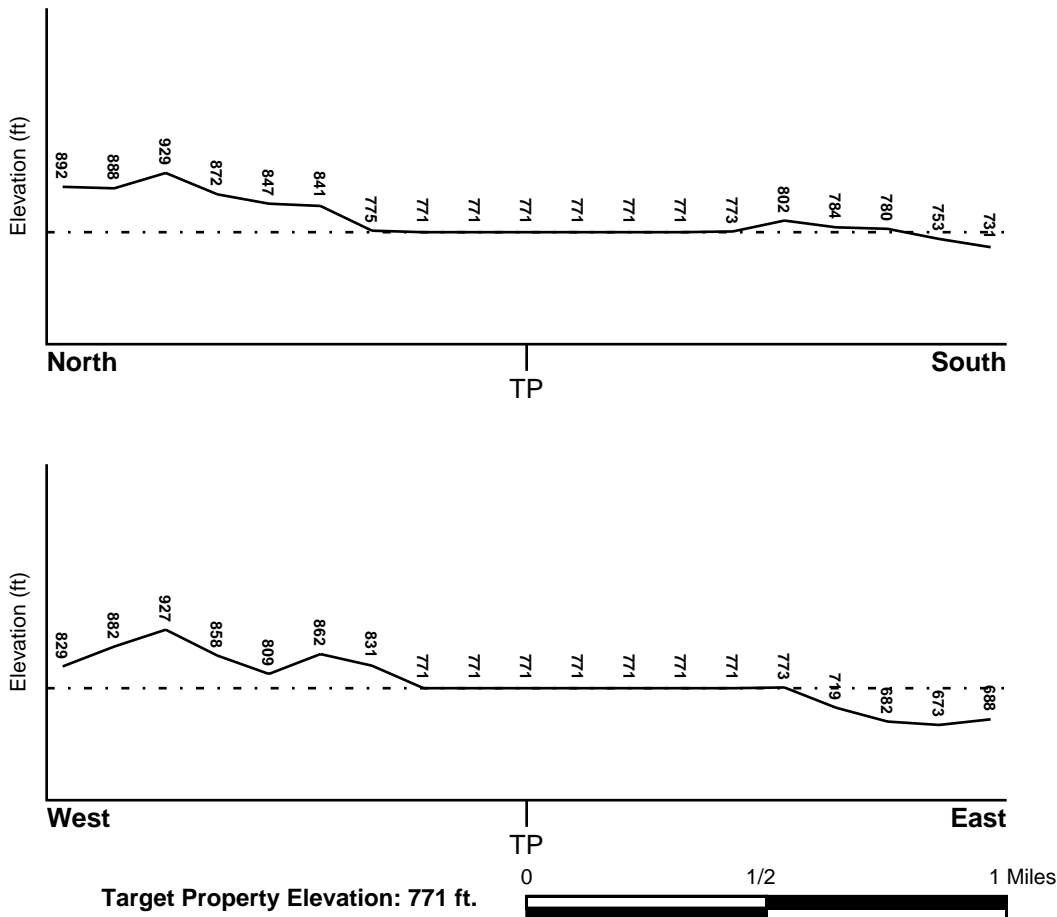
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
13077C0095D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
LOWELL	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

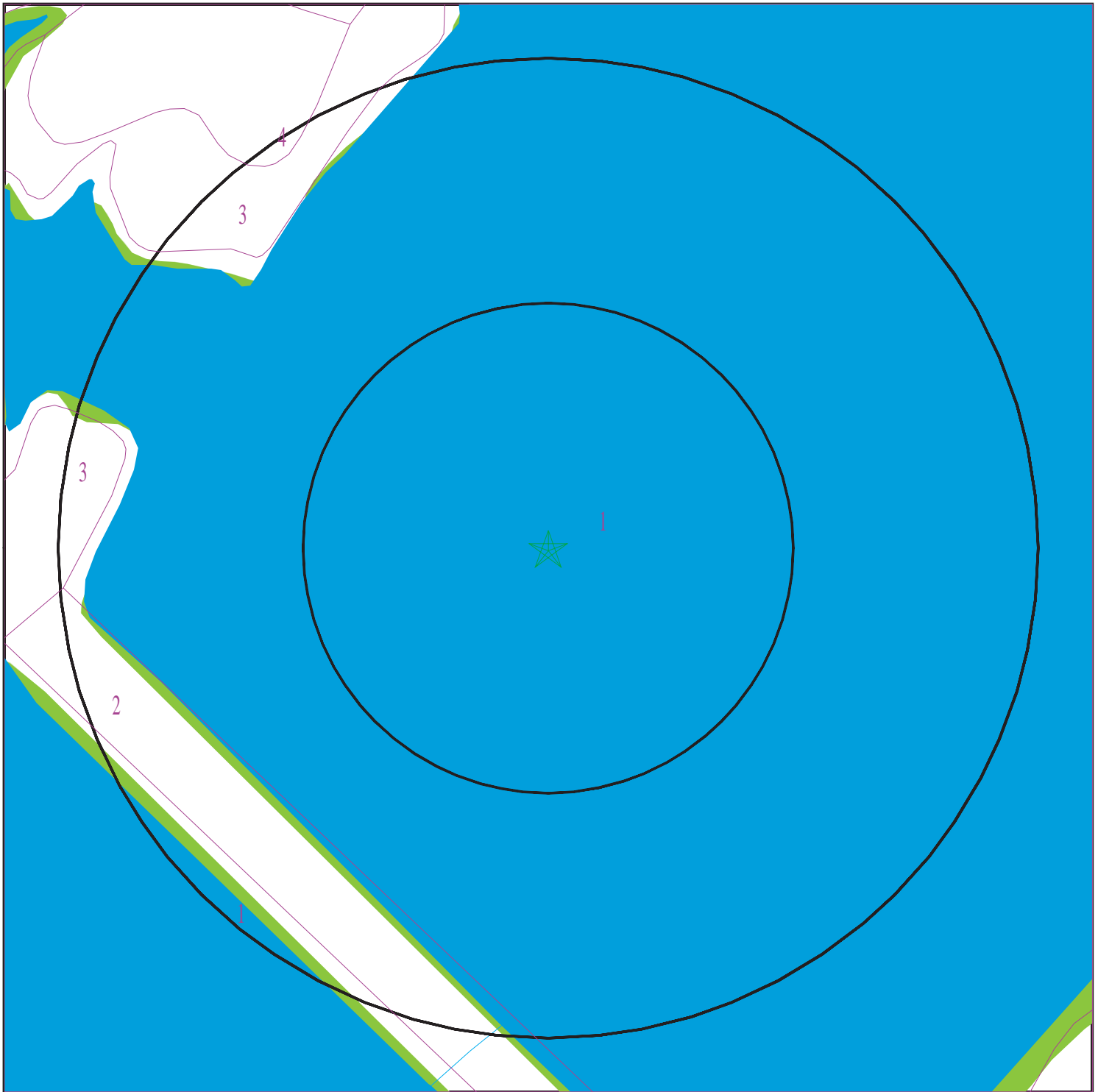
Era:	Paleozoic
System:	Pennsylvanian
Series:	Cataclastic rocks
Code:	cat (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 07207900.1r



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Plant Wansley
ADDRESS: 1371 Liberty Church Rd
Franklin GA 30217
LAT/LONG: 33.421477 / 85.043422

CLIENT: Geosyntec Consultants
CONTACT: Anthony Szwast
INQUIRY #: 07207900.1r
DATE: December 19, 2022 3:58 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Dam

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Louisa

Soil Surface Texture: weathered bedrock

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	16 inches	83 inches	weathered bedrock	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
2	0 inches	5 inches	gravelly fine sandy loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
3	5 inches	16 inches	gravelly loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: Madison

Soil Surface Texture: gravelly fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	35 inches	51 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000263025	1/4 - 1/2 Mile SSE
A4	USGS40000263022	1/2 - 1 Mile SSE
B6	USGS40000262995	1/2 - 1 Mile SSW
C8	USGS40000263163	1 - 2 Miles NNE
D9	USGS40000262969	1 - 2 Miles SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
E12	USGS40000262948	1 - 2 Miles SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

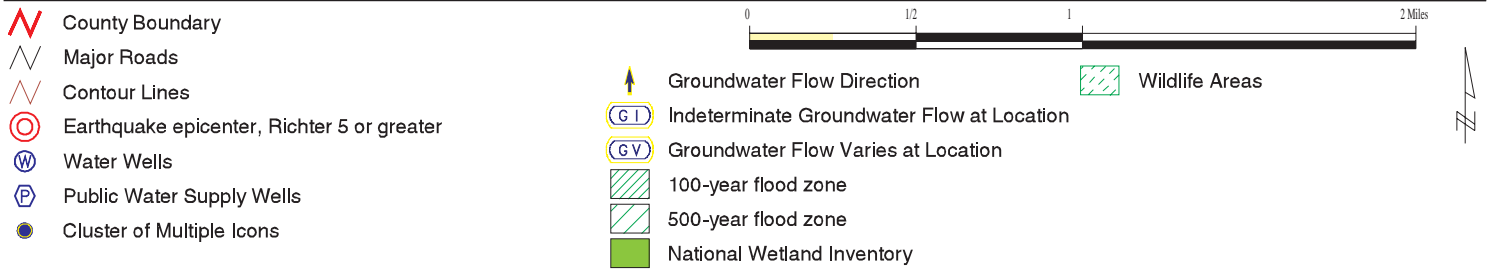
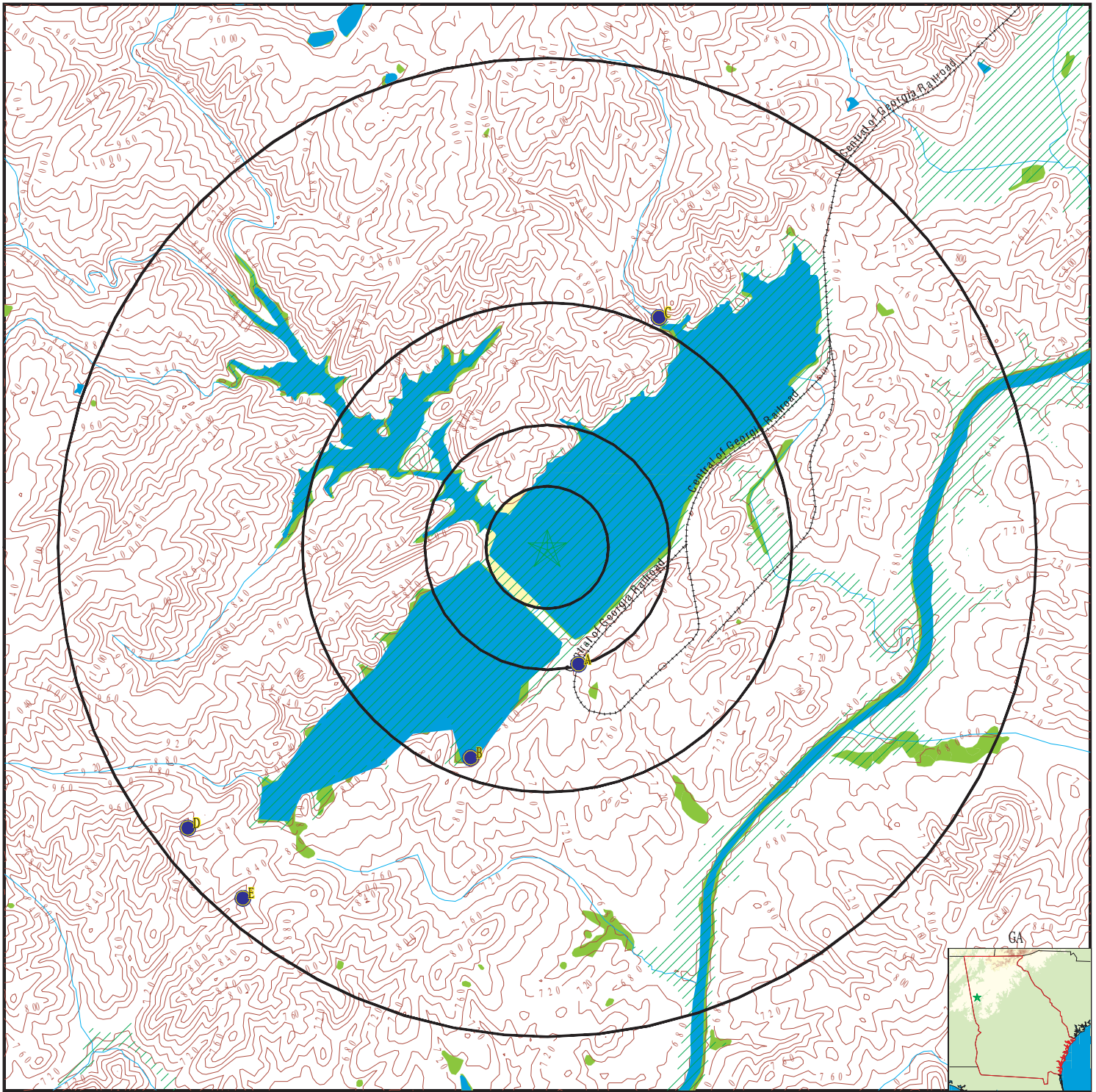
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	0000006110	1/4 - 1/2 Mile SSE
A3	0000006108	1/2 - 1 Mile SSE
B5	0000006106	1/2 - 1 Mile SSW
C7	0000001364	1 - 2 Miles NNE
D10	0000006105	1 - 2 Miles SW
E11	0000006104	1 - 2 Miles SW

PHYSICAL SETTING SOURCE MAP - 07207900.1r



SITE NAME: Plant Wansley
ADDRESS: 1371 Liberty Church Rd
 Franklin GA 30217
LAT/LONG: 33.421477 / 85.043422

CLIENT: Geosyntec Consultants
CONTACT: Anthony Szwest
INQUIRY #: 07207900.1r
DATE: December 19, 2022 3:58 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
SSE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000263025

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB31	Type:	Well
Description:	Not Reported	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1900
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

A2
SSE
1/4 - 1/2 Mile
Higher

GA WELLS 000006110

County code:	149	Well num:	05BB31
Remarks:	Not Reported	Lat:	332454
Lon:	0850228	Latlon datum:	NAD27
Alt:	790	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	000006110

A3
SSE
1/2 - 1 Mile
Higher

GA WELLS 000006108

County code:	149	Well num:	05BB30
Remarks:	GA POWER SOIL LAB WELL	Lat:	332450
Lon:	0850229	Latlon datum:	NAD27
Alt:	770	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	6
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1900
Discharge:	Not Reported	Prim use:	U
Aquifer code:	320CRSL	Edr id:	000006108

A4
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000263022

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB30	Type:	Well
Description:	GA POWER SOIL LAB WELL	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers	Aquifer Type:	Not Reported
Formation Type:	Crystalline Rocks	Well Depth:	Not Reported
Construction Date:	1900	Well Hole Depth:	Not Reported
Well Depth Units:	Not Reported		
Well Hole Depth Units:	Not Reported		

**B5
SSW
1/2 - 1 Mile
Higher**

GA WELLS 000006106

County code:	149	Well num:	05BB29
Remarks:	GA PWR ASH POND ACID TANK	Lat:	332432
Lon:	0850256	Latlon datum:	NAD27
Alt:	810	Alt datum:	NGVD29
Depth:	35.45	Depth to casing:	Not Reported
Casing dia:	27.00	Casing matl:	C
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1900
Discharge:	Not Reported	Prim use:	Z
Aquifer code:	Not Reported	Edr id:	000006106

**B6
SSW
1/2 - 1 Mile
Higher**

FED USGS USGS40000262995

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB29	Type:	Well
Description:	GA PWR ASH POND ACID TANK	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1900
Well Depth:	35.45	Well Depth Units:	ft
Well Hole Depth:	35.45	Well Hole Depth Units:	ft

Ground water levels, Number of Measurements:	1	Level reading date:	1995-11-21
Feet below surface:	9.94	Feet to sea level:	Not Reported
Note:	Not Reported		

**C7
NNE
1 - 2 Miles
Higher**

GA WELLS 000001364

County code:	045	Well num:	05BB28
Remarks:	GA POWER RECREATION WELL	Lat:	332606
Lon:	0850208	Latlon datum:	NAD27
Alt:	780	Alt datum:	NGVD29
Depth:	400	Depth to casing:	45
Casing dia:	16.25	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	19850813
Discharge:	5	Prim use:	R
Aquifer code:	320CRSL	Edr id:	000001364

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

C8
NNE
1 - 2 Miles
Higher

FED USGS USGS40000263163

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB28	Type:	Well
Description:	Not Reported	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Crystalline Rocks	Aquifer Type:	Not Reported
Construction Date:	19850813	Well Depth:	400
Well Depth Units:	ft	Well Hole Depth:	400
Well Hole Depth Units:	ft		

D9
SW
1 - 2 Miles
Higher

FED USGS USGS40000262969

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB25	Type:	Well
Description:	WARREN NASH	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Crystalline Rocks	Aquifer Type:	Not Reported
Construction Date:	19920501	Well Depth:	380
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1995-10-25
Feet below surface:	21.38	Feet to sea level:	Not Reported
Note:	Not Reported		

D10
SW
1 - 2 Miles
Higher

GA WELLS 000006105

County code:	149	Well num:	05BB25
Remarks:	WARREN NASH	Lat:	332417
Lon:	0850408	Latlon datum:	NAD27
Alt:	860	Alt datum:	NGVD29
Depth:	380	Depth to casing:	26
Casing dia:	6.25	Casing matl:	P
Depth to top:	26	Depth to bot:	380
Opening type:	X	Constr date:	19920501
Discharge:	1	Prim use:	H
Aquifer code:	320CRSL	Edr id:	000006105

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E11
SW
1 - 2 Miles
Higher

GA WELLS 000006104

County code:	149	Well num:	05BB32
Remarks:	Not Reported	Lat:	332402
Lon:	0850354	Latlon datum:	NAD27
Alt:	830	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	24
Casing dia:	Not Reported	Casing matl:	C
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1900
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	000006104

E12
SW
1 - 2 Miles
Higher

FED USGS USGS40000262948

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	05BB32	Type:	Well
Description:	Not Reported	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1900
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for HEARD County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 30217

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Georgia GIS Clearinghouse

Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations

Georgia Department of Public Health

Telephone: (404) 657-2700

A listing of Private Water Well locations

Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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